U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-275 889

Water Resources Data for Alaska, Water Year 1976

Geological Survey, Anchorage, Alaska Water Resources Div

1977

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

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1976

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Water resources data for the 1976 water year for Alaska consist of records of stage, discharge, and water quality of streams; stage and water quality of lakes; and water levels and water quality in wells and springs. This report contains discharge records for 102 gaging stations; stage only records for 2 gaging stations; water quality for 71 stations; and water levels for 24 observation wells. Also included are 91 crest-stage partial-record stations and 28 water-quality partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements of discharge, lake stage, or water quality. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

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PREFACE

This report was prepared by personnel of the Alaska district of the Water Resources Division of the U.S. Geological Survey under the supervision of Harry Hulsing, District Chief, and W. H. Robinson, Regional Hydrologist, Western Region. It was done in cooperation with the State of Alaska and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Water Resources Data for Alaska

Water Year 1976

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AK-76-1

Prepared in cooperation with the State of Alaska
and with other agencies

ia

UNITED STATES DEPARTMENT OF THE INTERIOR

Cecil D. Andrus, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For information on the water program in Alaska write to
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Anchorage, Alaska 99501

1977

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[*Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment*]

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[*Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment*]

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WATER RESOURCES DATA FOR ALASKA, 1976

INTRODUCTION

Water resources data for the 1976 water year for Alaska consist of records of stage, discharge, and water quality of streams; stage and water quality of lakes; and water levels and water quality of wells and springs. This report contains discharge records for 102 gaging stations; stage only records for 2 gaging stations; water quality for 71 gaging stations; 28 partial-record stations, 83 wells, and 34 springs; and water levels for 24 observations wells. Also included are data for 91 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements of discharge, lake stage, and water quality. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

Records of discharge or stage of streams, contents or stage of lakes, chemical quality, water temperature, and suspended sediment were published in U.S. Geological Survey water-supply papers (WSPs). Through September 30, 1960, these data were published in a series of WSPs entitled, "Quantity and Quality of Surface Waters of Alaska" (through 1950, 1951-53, 1954-56, 1957, 1958, 1959, 1960). Since 1960, streamflow records and related data were published for Part 15, Alaska, in a 5-year series of WSPs for 1961-65 and 1966-70 entitled, "Surface Water Supply of the United States." Water-quality records were published in a WSP as "Quality of Surface Waters of Alaska, 1961-63" and after then until 1970 in an annual series of WSPs entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1949 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Va. 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report AK-76-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Va. 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alaska have had cooperative agreements since 1958 for the systematic collection of streamflow records, water-quality records, and ground-water levels. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Alaska Department of Fish and Game, J. W. Brooks, commissioner

Alaska Department of Highways in cooperation with the Federal Highway Administration, U.S. Department of Transportation, W. B. Parker, commissioner, succeeded by H. D. Scougal.

Alaska Department of Natural Resources, G. R. Martin, commissioner.

Alaska Department of Environmental Conservation, Ernst Mueller, commissioner.

Alaska State Pipeline Coordinator's Office, C. A. Champion.

Municipality of Anchorage, G. M. Sullivan, mayor.

Fairbanks North Star Borough, J. A. Carlson, mayor.

Kenai Peninsula Borough, S. F. Thompson, chairman.

Assistance in the form of funds or services was given by the following federal agencies for information published in this report: Corps of Engineers, U.S. Army, for 27 gaging stations and 5 water-quality stations; Forest Service, U.S. Department of Agriculture, for 7 gaging stations and 8 water-quality stations; Alaska Power Administration, U.S. Department of the Interior, for 5 gaging stations; Alaskan Air Command, U.S. Air Force, for 1 gaging and water-quality station; and Environmental Protection Agency, for water-quality data.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENT

Alaska district personnel who contributed significantly to the collection and preparation of the data in this report are too numerous to mention individually. However, these people were in the following groups: Hydrology Section, R. D. Lamke, chief; Anchorage Subdistrict, R. S. George, chief; Fairbanks Subdistrict, J. P. Meckel, chief; and Juneau Subdistrict, V. K. Berwick, chief.

HYDROLOGIC CONDITIONS

Streamflow was average for the water year in Southeast Alaska except for above average flows on Revillagigedo, Prince of Wales, and Baranof Islands. About average flows occurred in the coastal streams along the Gulf of Alaska, the Copper River basin, most of the Kenai Peninsula, most of the Anchorage area, Kodiak Island, Southwest Alaska, some of the Yukon drainage, and the Arctic Slope rivers. However, the Middle Fork Koyukuk and Putuligayuk Rivers draining the Brooks Range had much above average annual discharges. The small streams in the lowlands of the Kenai Peninsula and in the Anchorage area were slightly below average as were Knik, Matanuska, Susitna, and Kuskokwim River drainages. The flow was much below average in the Tanana River tributaries downstream from Big Delta to the mouth, in the Kobuk River, and near Barrow. For instance, the mean flow in the Salcha and Chena Rivers near the mouth was only about 55 percent of the average flow. The only year that was drier in 28 years of record occurred in 1958.

As the 1976 water year began, streamflow in Southeast Alaska was below average. Flow was deficient (in the lowest 25 percent for the period of record) at half of the gaging stations during October and at three-fourths of the stations in November. The mean flow for November in Gold Creek near Juneau was the lowest in 32 years of record. Precipitation in November at the long-term weather stations was only about two-thirds of normal. Streamflow was excessive (in the highest 25 percent for the period of record) at many stations in the southeast during December and at about three-fourths of the stations in January. Precipitation during December was above normal and was about 170 percent of normal in January. Above average flows continued at many of the southeastern stations with excessive flows in May and July at more than half of the stations. However, there were no outstanding peak discharges in Southeast Alaska except in the Kadashan River basin where the mid-September peaks were the highest or second highest in 7 to 12 years of record.

In South-central Alaska, July and August flows were among the lowest on record for small streams with low altitude drainages such as Beaver Creek near Kenai and Campbell and Chester Creeks in Anchorage. Noteworthy peaks occurred September 20 near Seward, where the peaks were the highest or second highest for periods of record of less than 14 years. The monthly mean flows at the few long-term gaging stations in Southwest Alaska were generally below average or deficient.

The most evident flow anomaly in the Yukon basin was deficient flows during July through September at most of the streamflow stations in the vicinity of Fairbanks because of below normal precipitation. Excessive flows occurred in June and July at the short-term stations, Middle Fork Koyukuk River near Wiseman in the Yukon basin and Putuligayuk River near Deadhorse on the Arctic Slope. There is not enough information to categorize monthly flow patterns in Northwest Alaska or on the Arctic Slope.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows. See also the table for converting English Units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters (mL) of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are animals inhabiting the bottom of an aquatic environment. They include a number of different types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are frequently used as indicators of environmental quality because many have restricted mobility during their aquatic life phase, as well as a relatively long lifespan which allows for response to prevailing and changing water-quality conditions. Many benthic organisms inhabit specific types of environments which, if changed, result in changes in the composition of the benthic community.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,447 cubic meters.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, or ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream or lake where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO^3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocuri (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended-sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that is discharged in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content in the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The use of artificial substrates simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

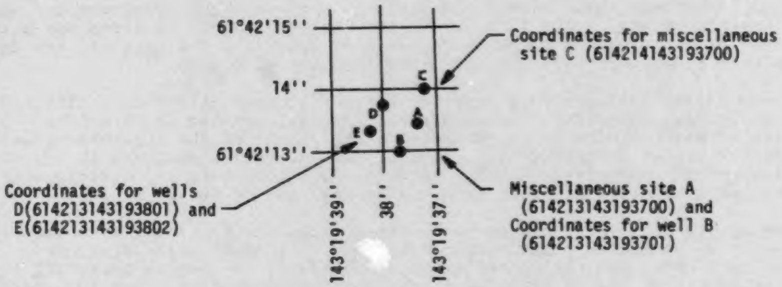
Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutuve. The complete 8-digit number for each station, such as 15303600, which appears just to the left of the station name, includes the 2-digit part number "15" plus the 6-digit downstream order number "303600."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.



Coordinates for miscellaneous site C (614214143193700)

Coordinates for wells D(614213143193801) and E(614213143193802)

Miscellaneous site A (614213143193700) and Coordinates for well B (614213143193701)

Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distributuon of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and stage of lakes. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At most stream-gaging stations in Alaska the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed or estimated on the basis of the available gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder is stopped for the winter or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; It is not given for stations having fewer than 5 complete years of record. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge, it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if most of the flow is from a spring. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record crest-stage stations are presented in a table of annual maximum stage and discharge. The partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations. Lake-level data collected at miscellaneous selected lakes are tabulated also.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy. "Estimated" means that the total discharge for the period could be 25 percent or more in error.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, flow from springs, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions or for other changes incident to use and control.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is filed in the subdistrict offices at Anchorage, Fairbanks, and Juneau for their areas of responsibility. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

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Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $1.60.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G.P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages. 1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. $0.20.

3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS-TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $0.40.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer test, design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics--a programed text for self-instruction*, by G. D. Bennett: USGS-TWRI Book 3, Chapter B2. 1976. 172 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. $1.95.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

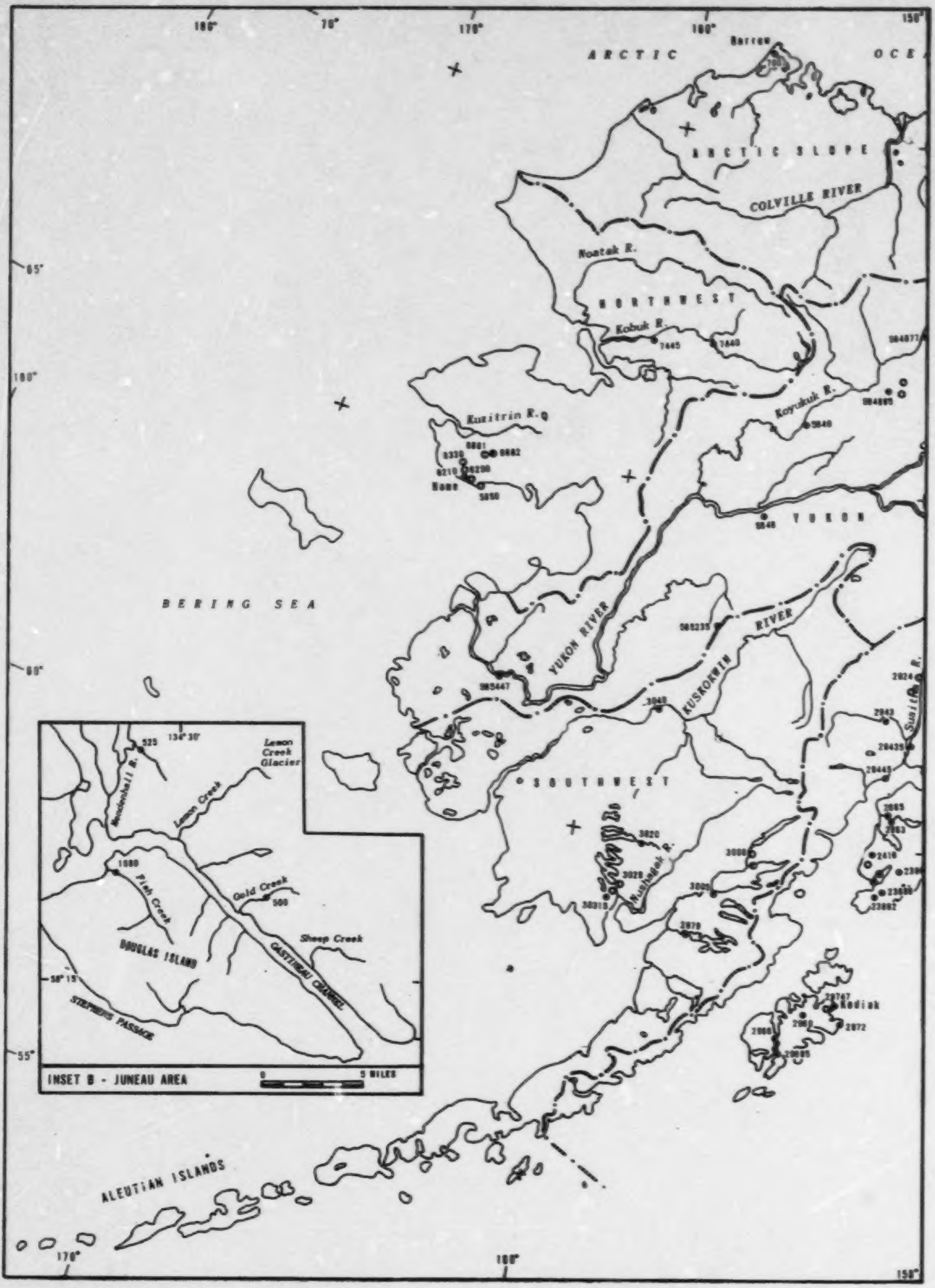
ARCTIC OCEAN
Barrow
ARCTIC SLOPE
COLVILLE RIVER
Noatak R.
NORTHWEST
Kobuk R.
Koyukuk R.
Kuzitrin R.
Nome
YUKON
BERING SEA
YUKON RIVER
KUSKOKWIM RIVER
SOUTHWEST
Nushagak R.
Susitna R.
Kodiak
ALEUTIAN ISLANDS
INSET B - JUNEAU AREA
Mendenhall R.
Lemon Creek
Lemon Creek Glacier
Fish Creek
Gold Creek
Sheep Creek
DOUGLAS ISLAND
GASTINEAU CHANNEL
STEPHENS PASSAGE
0
5 MILES

Figure 2.--Map showing locations of gaging stations (west of 150° longitude).

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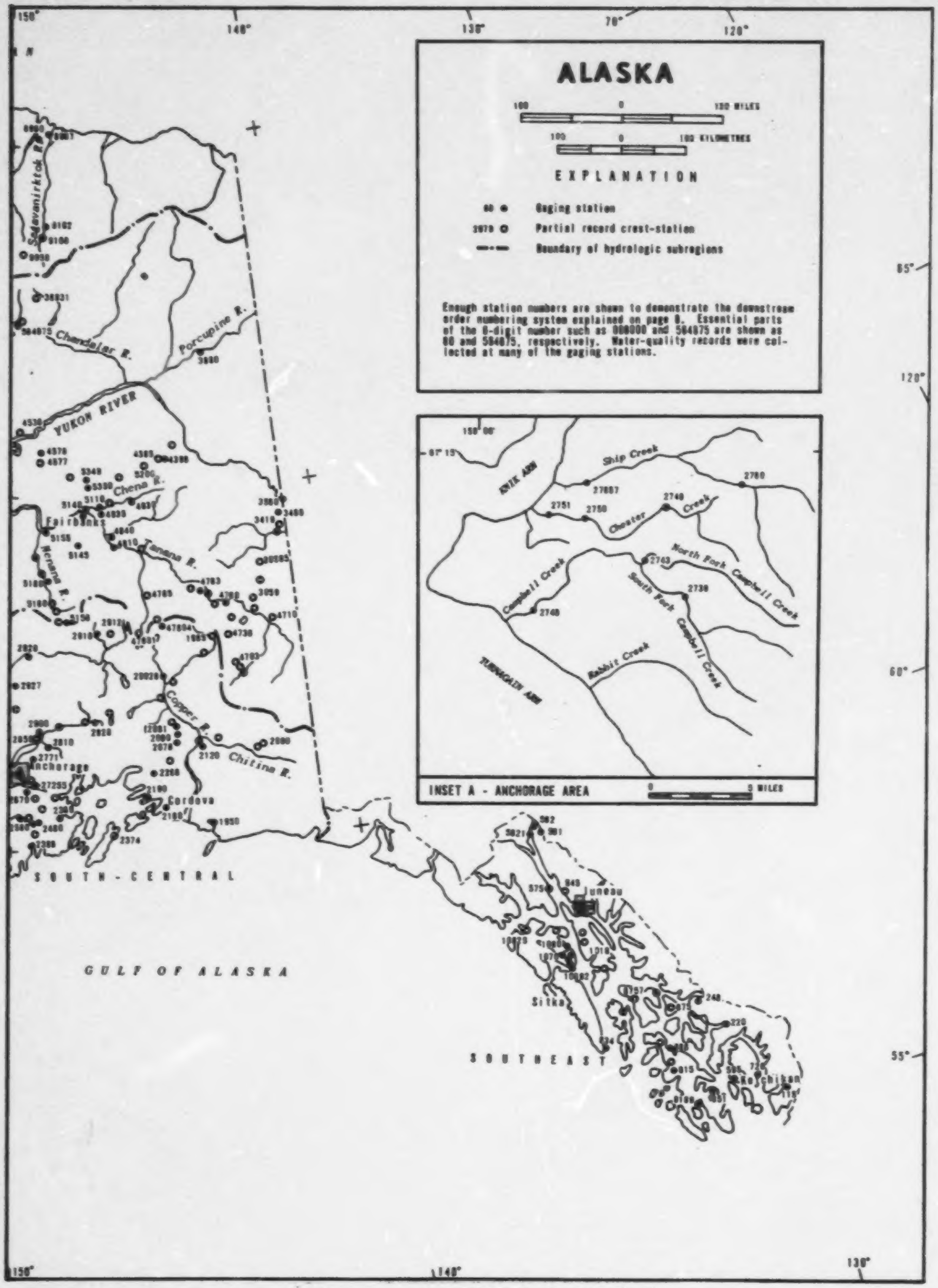
ALASKA
100 0 100 MILES
100 0 100 KILOMETRES
EXPLANATION
80 ● Gaging station
3979 ○ Partial record crest-station
Boundary of hydrologic subregions
Enough station numbers are shown to demonstrate the downstream order numbering system explained on page 8. Essential parts of the 8-digit number such as 000000 and 584875 are shown as 00 and 584875, respectively. Water-quality records were collected at many of the gaging stations.
150°
140°
130°
70°
120°
65°
60°
55°
Sagavanirktok R.
Chandalar R.
Porcupine R.
YUKON RIVER
Chena R.
Fairbanks
Tanana R.
Nenana R.
Copper R.
Chitina R.
Anchorage
Cordova
SOUTH-CENTRAL
GULF OF ALASKA
Juneau
Sitka
Ketchikan
SOUTHEAST
INSET A - ANCHORAGE AREA
0 5 MILES
150°00'
61°15'
KNIK ARM
TURNAGAIN ARM
Ship Creek
Chester Creek
North Fork Campbell Creek
South Fork Campbell Creek
Campbell Creek
Rabbit Creek
2780
27807
2749
2751
2750
2743
2738
2740

Figure 2.--Continued (east of 150° longitude).

SOUTHEAST ALASKA

15011500 RED RIVER NEAR METLAKATLA

LOCATION.--Lat 55°08'29", long 130°31'50", Hydrologic Unit 19060000, in Tongass National Forest, on left bank, 0.2 mi (0.3 km) upstream from mouth at northeast end of Marten Arm of Boca De Quadra, and 41 mi (66 km) east of Metlakatla.

DRAINAGE AREA.--45.3 mi^2 (117.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WSP 2136: 1964 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (1.5 m), from topographic map.

REMARKS.--Records fair. Periodic high tides cause backwater at the gage and are shown on the stage record.

AVERAGE DISCHARGE.--13 years, 594 ft^3/s (16.82 m^3/s), 178.07 in/yr (4,523 mm/yr), 430,400 acre-ft/yr (531 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft^3/s (331 m^3/s) Dec. 31, 1963, gage height, 10.66 ft (3.249 m), from rating curve extended above 1,400 ft^3/s (40 m^3/s); minimum daily, 21 ft^3/s (0.59 m^3/s) Jan. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,550 ft^3/s (214 m^3/s) Jan. 17 (0300 hrs), gage height, 9.22 ft (2.810 m), from rating curve extended above 1,400 ft^3/s (40 m^3/s), only peak above base of 5,500 ft^3/s (155 m^3/s); minimum daily, 78 ft^3/s (2.21 m^3/s) Mar. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	603	100	258	1250	208	138	1380	856	1160	826	324
2	318	1490	95	213	1380	238	116	1150	802	946	802	366
3	587	2100	90	183	578	248	150	1190	720	808	748	1040
4	1340	856	87	168	357	198	203	1500	695	922	685	1080
5	1100	476	96	136	276	166	198	1080	700	1080	610	2770
6	733	318	114	112	240	185	419	1310	808	1080	575	796
7	400	321	927	100	487	164	414	1070	1100	1080	595	448
8	348	273	1550	95	920	188	342	928	1090	1200	595	1730
9	270	233	477	90	306	258	357	1330	1240	946	832	2180
10	258	215	265	88	238	136	420	2220	1110	826	1820	685
11	198	570	210	86	215	114	540	2020	874	874	2250	400
12	170	881	162	84	164	119	428	2270	725	802	964	351
13	526	428	136	84	144	103	388	1670	720	766	838	869
14	417	372	154	90	146	87	607	922	928	908	565	1530
15	1080	376	109	213	126	78	339	725	1100	1250	490	2750
16	2000	325	111	3360	126	240	276	710	1360	1430	432	971
17	1750	213	499	3630	117	1010	285	1440	1640	1210	396	476
18	1910	175	1410	805	108	662	303	928	1550	1760	342	330
19	2910	158	2070	675	102	291	507	675	934	928	478	270
20	2760	140	1410	401	97	228	420	665	850	1110	742	245
21	838	144	590	812	94	270	312	705	832	898	742	263
22	595	148	823	1030	92	348	263	826	892	1050	440	260
23	424	148	654	468	90	279	340	796	1110	928	339	276
24	351	273	1930	315	88	228	495	685	984	1040	306	339
25	291	330	1290	253	88	228	428	977	826	1180	279	444
26	225	260	1170	463	88	255	440	1150	1200	1780	279	318
27	185	156	1200	2090	99	208	637	977	886	984	545	285
28	158	128	1010	1070	146	193	1130	1060	964	1200	625	1030
29	146	120	892	832	205	203	1400	838	1110	952	420	1440
30	352	110	480	2480	---	228	1200	784	1440	1020	450	1390
31	1980	---	315	2680	---	156	---	916	---	910	351	---
TOTAL	25920	12340	20426	23364	8367	7517	13503	34897	30046	33028	20361	25656
MEAN	836	411	659	754	289	242	450	1126	1002	1065	657	855
MAX	2910	2100	2070	3630	1380	1010	1400	2270	1640	1780	2250	2770
MIN	146	110	87	84	88	78	116	665	695	766	279	245
CFSM	18.5	9.07	14.5	16.6	6.38	5.34	9.93	24.9	22.1	23.5	14.5	18.9
IN.	21.28	10.13	16.77	19.19	6.87	6.17	11.09	28.66	24.67	27.12	16.72	21.07
AC-FT	51410	24480	40510	46340	16600	14910	26780	69220	59600	65510	40390	50890

CAL YR 1975 TOTAL 194472 MEAN 533 MAX 3010 MIN 45 CFSM 11.8 IN 159.70 AC-FT 385700
WTR YR 1976 TOTAL 255425 MEAN 698 MAX 3630 MIN 78 CFSM 15.4 IN 209.75 AC-FT 506600

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15011500 RED RIVER NEAR METLAKATLA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-67, 1971-72, and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT					
11...	1400	189	27	7.7	6.0
APR					
10...	1600	378	26	7.4	3.0
JUN					
06...	1800	679	19	6.8	7.0

15022000 HARDING RIVER NEAR WRANGELL

LOCATION (REVISED).--Lat 56°12'48", long 131°38'12", Hydrologic Unit 19060000, in Tongass National Forest, on right bank 1 mi (1.6 km) upstream from mouth on north shore of Bradfield Canal, 4 mi (6 km) downstream from Fall Lake, and 34 mi (55 km) southeast of Wrangell.

DRAINAGE AREA.--67.4 mi² (174.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1640: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), by barometer. Prior to Sept. 30, 1960, at site 300 ft (90 m) upstream at datum 0.12 ft (0.037 m) lower. Oct. 1, 1960, to Aug. 23, 1975, at prior site and present datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 737 ft³/s (20.87 m³/s), 148.49 in/yr (3,772 mm/yr), 534,000 acre-ft/yr (658 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s (425 m³/s) Oct. 14, 1961, gage height, 16.22 ft (4.944 m) site then in use, from rating curve extended above 5,000 ft³/s (140 m³/s) on basis of slope-area measurement at gage height, 13.90 ft (4.237 m); minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,260 ft³/s (262 m³/s) Sept. 15 (1400 hrs), gage height, 13.16 ft (4.011 m), from rating curve extended as explained above, only peak above base of 4,000 ft³/s (113 m³/s); minimum daily, 140 ft³/s (4.0 m³/s) Dec. 2,3, Jan. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2460	280	150	231	784	228	141	1460	666	2570	1920	1060
2	1250	331	140	187	811	235	141	1360	839	1850	1810	945
3	1070	666	140	173	434	231	155	1160	895	1590	1820	1120
4	1100	481	201	163	301	204	173	1250	1020	1540	1710	1310
5	888	353	260	160	240	195	165	1180	1070	1590	1600	1040
6	672	272	313	160	210	195	179	1110	1070	1780	1420	867
7	541	238	353	150	224	190	224	945	1240	1740	1420	704
8	450	224	476	150	301	217	249	757	1470	1920	1530	1150
9	385	217	569	140	204	221	297	832	1480	2050	2200	3260
10	339	204	414	140	176	190	335	1670	1420	1630	2590	1670
11	297	228	353	140	163	190	497	1480	1360	1510	2560	1060
12	276	353	331	140	153	217	429	1090	1150	1780	2440	811
13	526	297	292	140	155	204	344	1020	966	1980	1810	917
14	679	238	348	170	313	190	390	797	1040	1680	1310	1620
15	660	210	344	193	284	184	322	711	1170	1700	1470	3950
16	888	201	335	400	210	268	257	679	1670	1820	1240	2010
17	832	181	395	910	181	679	235	924	2110	1890	1110	1100
18	692	170	647	672	168	771	231	860	2520	1510	938	777
19	987	163	1210	546	160	404	246	711	1610	1220	1000	653
20	994	153	853	318	187	207	288	653	1470	1250	1260	698
21	647	153	400	357	195	187	261	660	1350	1310	1520	737
22	535	153	390	502	253	204	235	660	1290	1310	1110	910
23	476	148	362	326	242	201	231	692	1280	1430	987	952
24	414	221	647	235	217	187	288	610	1400	1350	853	1140
25	385	235	641	201	193	181	297	711	1230	1520	771	2220
26	322	204	592	217	184	176	318	744	1250	1610	784	2170
27	280	165	757	450	168	173	424	724	1310	1470	924	2280
28	246	160	476	450	176	173	704	666	1380	1670	1090	2480
29	228	160	344	376	217	165	1100	604	1640	1800	945	1540
30	231	150	261	764	---	165	1390	616	2520	2120	846	1590
31	322	---	217	987	---	153	---	598	---	2060	846	---
TOTAL	20072	7209	13219	10148	7504	7385	10546	27934	40886	52250	43834	42741
MEAN	647	240	426	327	259	238	352	901	1363	1685	1414	1425
MAX	2460	666	1210	987	811	771	1390	1670	2520	2570	2590	3950
MIN	228	148	140	140	153	153	141	598	666	1220	771	653
CFSM	9.60	3.56	6.32	4.85	3.84	3.53	5.22	13.4	20.2	25.0	21.0	21.1
IN.	11.08	3.98	7.30	5.60	4.14	4.08	5.82	15.42	22.57	28.84	24.19	23.59
AC-FT	39810	14300	26220	20130	14880	14650	20920	55410	81100	103600	86940	84780

CAL YR 1975 TOTAL 234007 MEAN 641 MAX 3670 MIN 60 CFSM 9.51 IN 129.15 AC-FT 464200
WTR YR 1976 TOTAL 283728 MEAN 775 MAX 3950 MIN 140 CFSM 11.5 IN 156.60 AC-FT 562800

15022000 HARDING RIVER NEAR WRANGELL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-72 and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	* INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR					
13...	1415	329	34	--	3.0
MAY					
04...	1800	974	32	6.9	6.0

15024800 STIKINE RIVER NEAR WRANGELL
(National stream-quality accounting network station)

LOCATION.--Lat 56°42'07", long 132°08'28", in SE¼NW¼ sec.2, T.60 S., R.84 E., Hydrologic Unit 19060000, on left bank about 10 mi (16 km) upstream from mouth near Point Rothsay, 11 mi (18 km) west of Alaska-British Columbia boundary, and 18 mi (29 km) northeast of Wrangell.

DRAINAGE AREA.--Not yet determined.

PERIOD OF RECORD.--Water years 1975 and 1976.

REMARKS.--The recording station was established July 28, 1976. Discharge and temperature data for August and September will be published next year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)
OCT 20...	1700	36700	130	--	4.0	4	--	<1	<1	55
JUN 03...	1500	67500	104	7.8	8.0	45	0	<1	<1	66
JUL 28...	1650	110000	100	7.8	8.5	30	--	--	--	47

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 20...	6	17	3.0	2.6	.6	60	0	--	11
JUN 03...	17	22	2.7	2.2	.7	60	0	1.5	9.8
JUL 28...	8	15	2.3	1.5	.6	48	0	1.2	8.1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 20...	.8	.0	3.7	82	69	.05	.14	.19	.02
JUN 03...	9.7	.0	4.5	73	81	.17	.28	.45	.05
JUL 28...	.6	.1	3.2	47	55	.24	.10	.34	.06

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
OCT 20...	1700	1	0	1	<10	<8	2	0	0	10	<50
JUN 03...	1500	3	2	1	<10	<9	1	10	10	0	<50
JUL 28...	1650	0	0	0	<10	<9	1	0	0	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT 20...	<50	0	10	2	8	930	210	100	80	20	40
JUN 03...	<50	0	20	16	4	6600	70	<100	<100	0	170
JUL 28...	<50	0	20	15	5	3900	30	<100	<85	15	90

15024800 STIKINE RIVER NEAR WRANGELL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 20...	10	30	.1	.1	.0	0	0	0	30	0	30
JUN 03...	160	10	3.3	3.1	.2	1	1	0	100	100	0
JUL 28...	80	10	1.2	1.1	.1	0	0	0	30	30	0

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	1700	1.6
JUN 03...	1500	3.4
JUL 28...	1650	1.6

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
OCT 20	1700		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
			....H.ARCUS				
		D	.....H.ARCUS		14	30	
		D	....ASTERIONELLA		9	20	
		D	....SYNEDRA		9	20	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		5	10	
			...NITZSCHIACEAE				
		D	....NITZSCHIA		9	20	
				TOTALS	47	100	
			TOTAL		47		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME		_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
JUN 3	1500		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
		D	....H.ARCUS		48	48	
			...CYMBELLACEAE				
			....CYMBELLA		5	5	
			...FRAGILARIACEAE				
			....FRAGILARIA		14	14	
			...GOMPHONEMATACEAE				
			....GOMPHONEMA		14	14	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		10	10	
			...NITZSCHIACEAE				
			....NITZSCHIA		10	10	
				TOTALS	100	101	
			TOTAL		100		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

15024800 STIKINE RIVER NEAR WRANGELL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	SAMPLING METHOD
JUL 28	1650		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
		D	....H.ARCUS		10	25	
		L	....SYNEDRA			0	
			...NAVICULACEAE	NAVICULOID			
		D	....NAVICULA		21	50	
			...NITZSCHIACEAE				
		D	....NITZSCHIA		10	25	
				TOTALS	41	100	
			TOTAL		41		

NOTE: D - DOMINANT ORGANISM! GREATER OR EQUAL TO 15%
L - LESS THEN 1%! MAY NOT HAVE BEEN ACTUALLY COUNTED

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT 20...	1700	36700	4.0	44	84	8320	--	--
JUN 03...	1500	67500	8.0	45	169	30800	11	15
JUL 28...	1650	110000	8.5	30	144	43200	12	16

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT 20...	--	--	--	29	--	--	--
JUN 03...	20	28	39	52	64	85	100
JUL 28...	23	32	40	48	61	85	100

15050000 GOLD CREEK AT JUNEAU

LOCATION.--Lat 58°18'25", long 134°24'03", City and Borough of Juneau, Hydrologic Unit 19060000, on left bank 10 ft (3 m) downstream from highway bridge, 150 ft (46 m) upstream from Alaska Electric Light and Power Company dam and diversion, 0.5 mi (0.8 km) northeast of Juneau, and 1 mi (1.6 km) upstream from mouth at Gastineau Channel.

DRAINAGE AREA.--9.76 mi² (25.28 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1916 to December 1920 (monthly discharge only), October 1946 to September 1948, October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 245 ft (74.7 m), from topographic map. July 20, 1916 to Dec. 31, 1920, at site 50 ft (15 m) upstream at different datum. Sept. 11, 1946 to Sept. 30, 1948, nonrecording gage at site 0.7 mi (1.1 km) downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--33 years, 107 ft³/s (3.03 m³/s), 148.88 in/yr (3,782 mm/yr), 77,520 acre ft/yr (95.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft³/s (75.0 m³/s) Aug. 12, 1961, gage height, 6.57 ft (2.003 m), from rating curve extended above 1,500 ft³/s (42 m³/s); no flow at times during winters of 1951, 1956 and 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximum (*).

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Sept. 9	Unknown	Unknown		Unknown		Sept. 27	Unknown	Unknown		Unknown	
Sept. 15	Unknown	*1,900	53.8	*a5.94	1.81						

a From high-water mark in well.
Note: Short periods of no gage-height record during peaks.

Minimum daily discharge, 2.1 ft³/s (0.06 m³/s) Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	30	8.4	16	96	2.3	3.3	164	93	390	293	82
2	220	29	7.7	14	95	2.4	3.1	190	119	253	249	75
3	202	30	7.7	14	49	2.6	4.6	217	141	208	226	95
4	173	29	8.0	12	37	2.7	5.2	236	119	205	223	103
5	141	26	7.3	9.6	29	3.1	4.4	184	107	290	208	79
6	114	24	6.6	5.8	27	3.1	3.9	187	108	288	173	61
7	90	22	6.2	7.3	31	3.3	4.1	181	132	261	164	54
8	72	21	5.2	11	26	2.7	4.1	123	144	329	239	200
9	60	21	4.9	9.2	21	2.5	5.2	119	151	418	282	620
10	54	20	5.5	8.0	20	2.7	12	211	139	271	267	330
11	47	20	5.5	6.6	16	3.1	15	205	170	222	327	150
12	63	20	4.9	5.8	16	2.5	16	162	146	199	318	100
13	167	18	4.9	5.2	14	2.7	16	129	193	212	215	96
14	132	18	5.2	5.2	13	2.4	18	105	193	215	154	200
15	132	18	4.6	4.9	12	2.7	16	88	205	216	129	1300
16	208	16	5.8	7.7	12	11	15	75	246	229	116	294
17	146	16	11	8.4	10	22	14	72	310	194	107	217
18	129	16	24	16	8.8	17	13	67	362	158	107	163
19	156	15	65	27	7.7	12	15	59	302	146	164	178
20	149	14	41	25	8.0	9.2	15	58	239	196	146	196
21	116	14	27	40	6.2	8.4	15	74	220	196	127	169
22	114	13	22	26	6.2	7.3	14	84	208	193	101	199
23	96	13	21	18	5.8	6.6	13	84	229	189	92	133
24	105	13	38	16	5.4	6.2	14	84	243	170	87	131
25	81	13	54	14	5.2	5.2	17	92	220	149	84	199
26	65	12	46	15	4.5	5.2	23	92	214	141	79	355
27	51	12	42	31	2.1	4.3	29	85	202	223	108	450
28	44	11	29	24	2.2	2.4	57	78	208	253	144	395
29	44	10	22	24	2.2	4.6	90	78	243	274	125	196
30	42	10	19	65	---	3.9	123	82	312	314	103	154
31	35	---	18	74	---	3.5	---	93	---	306	90	---
TOTAL	3696	544	577.4	565.7	588.3	169.6	597.9	3758	5918	7308	5243	6974
MEAN	119	18.1	18.6	18.2	20.3	5.47	19.9	121	197	236	169	232
MAX	448	30	65	74	96	22	123	236	362	418	327	1300
MIN	35	10	4.6	4.9	2.1	2.3	3.1	58	93	141	79	54
CFSM	12.2	1.85	1.91	1.86	2.08	.56	2.04	12.4	20.2	24.2	17.3	23.8
IN.	14.09	2.07	2.20	2.16	2.24	.65	2.28	14.32	22.55	27.85	19.98	26.58
AC-FT	7330	1080	1150	1120	1170	336	1190	7450	11740	14500	10480	13830

CAL YR 1975 TOTAL 40045.16 MEAN 110 MAX 1290 MIN .82 CFSM 11.3 IN 152.62 AC-FT 79430
WTR YR 1976 TOTAL 35939.90 MEAN 98.2 MAX 1300 MIN 2.1 CFSM 10.1 IN 136.97 AC-FT 71290

15050000 GOLD CREEK AT JUNEAU--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-50, 1967-72, and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR					
26...	1440	22	150	7.4	5.0
MAY					
25...	1000	89	115	--	4.0
AUG					
26...	1400	85	99	7.8	7.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP						
15...	1215	557	5.0	3	107	161

15052500 MENDENHALL RIVER NEAR AUKE BAY

LOCATION.--Lat 58°25'05", long 134°32'40", in SW¼NE¼ sec.8, T.40 S., R.66 E., City and Borough of Juneau, Hydrologic Unit 19060000, at east end of Mendenhall Lake, 250 ft (76 m) northwest of Mendenhall Visitors Center, 4.2 mi (6.8 km) northeast of Auke Bay, and 7 mi (11 km) upstream from mouth at Fritz Cove.

DRAINAGE AREA.--85.1 mi² (220.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 60 ft (18 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 1,080 ft³/s (30.59 m³/s), 172.34 in/yr (4.377 mm/yr), 782,500 acre-ft/yr (965 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,820 ft³/s (278 m³/s) Sept. 28, 1976, gage height 8.67 ft (2.643 m); maximum gage height, 8.94 ft (2.725 m) Aug. 24, 1966; minimum daily discharge, 19 ft³/s (0.54 m³/s) Mar. 1-3, 1969 and Mar. 7-11, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 1	0245	5,190	147	6.67	2.033	Aug. 10	Unknown	4,930	140	a6.54	1.993
Aug. 1	1830	5,290	150	6.72	2.048	Sept. 28	0915	*9,820	278	*8.67	2.643

a From recorded range of stage.

Minimum daily discharge, 37 ft³/s (1.05 m³/s) Mar. 3-7, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4820	182	79	91	208	39	52	415	455	2600	5060	1870
2	4590	168	79	86	269	38	51	508	548	2290	4780	1670
3	3890	166	76	85	215	37	50	554	675	2210	4400	1610
4	2740	164	74	79	160	37	52	554	668	2360	4100	1670
5	1990	156	74	71	131	37	54	548	634	2630	[illegible]	1510
6	1590	148	72	67	118	37	54	519	614	2780	3600	1410
7	1260	138	73	62	126	37	54	492	717	2730	3500	1550
8	1000	133	73	62	133	39	55	445	777	3040	3600	2280
9	785	126	69	60	113	39	56	401	848	3490	4000	2830
10	654	121	65	59	97	39	66	508	848	3300	4700	2350
11	577	121	65	58	88	39	80	554	1050	3120	4300	2140
12	542	124	62	59	82	38	91	519	1000	3020	3900	1710
13	816	119	58	57	75	37	100	508	1070	2840	3500	1520
14	915	112	58	54	68	38	104	492	1170	2820	3200	1920
15	873	105	57	54	64	40	104	455	1170	2840	3000	3260
16	986	104	57	55	60	46	103	425	1400	2850	2800	3360
17	762	97	62	66	54	65	95	410	1640	2630	2560	3360
18	565	96	71	88	51	82	92	382	1820	2430	2360	2610
19	542	93	109	136	49	82	92	338	1710	2390	2600	2350
20	602	91	154	182	46	79	95	317	1540	2970	2720	2780
21	565	90	148	248	46	71	95	308	1590	3120	2520	2900
22	508	88	126	224	46	66	92	325	1700	2780	2230	3620
23	405	86	115	166	45	62	86	364	1720	2610	2040	2990
24	373	91	118	133	45	61	85	368	1870	2400	2050	2760
25	342	92	138	110	45	60	91	377	1890	2500	2160	3560
26	304	90	144	99	43	60	107	405	1880	2580	2160	5280
27	255	85	140	109	42	60	123	440	1980	2440	2110	7070
28	255	81	135	115	41	58	148	425	2080	2460	2320	8890
29	224	80	121	109	40	56	211	405	2140	2990	2390	5240
30	208	80	109	135	---	56	308	396	2320	3870	2190	3520
31	199	---	97	185	---	55	---	450	---	4480	2080	---
TOTAL	34137	3427	2878	3164	2600	1590	2846	13607	39524	87570	96730	89590
MEAN	1101	114	92.8	102	89.7	51.3	94.9	439	1317	2825	3120	2986
MAX	4820	182	154	248	269	82	308	554	2320	4480	5060	8890
MIN	199	80	57	54	40	37	50	308	455	2210	2040	1410
CFSM	12.9	1.34	1.09	1.20	1.05	.60	1.12	5.16	15.5	33.2	36.7	35.1
IN.	14.92	1.50	1.26	1.38	1.14	.70	1.24	5.95	17.28	38.28	42.28	39.16
AC-FT	67710	6800	5710	6280	5160	3150	5650	26990	78400	173700	191900	177700

CAL YR 1975 TOTAL 409438 MEAN 1122 MAX 6290 MIN 25 CFSM 13.2 IN 178.98 AC-FT 812100
WTR YR 1976 TOTAL 377663 MEAN 1032 MAX 8890 MIN 37 CFSM 12.1 IN 165.09 AC-FT 749100

15052500 MENDENHALL RIVER NEAR AUKE BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-72 and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR				
28...	1550	146	99	4.5

15056200 WEST CREEK NEAR SKAGWAY

LOCATION.--Lat 59°31'35", long 135°21'10", Hydrologic Unit 19060000, on right bank 700 ft (210 m) upstream from highway bridge, 0.2 mi (0.3 km) upstream from mouth, and 5 mi (8 km) northwest of Skagway.

DRAINAGE AREA.--43.2 mi^2 (111.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1962 to current year.

REVISED RECORDS.--WSP 2136: 1962 (M), 1963 (M).

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (27 m), from topographic map.

REMARKS.--Records fair except those for Oct. 28 to Apr. 18 and period of no gage-height record, Aug. 1 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--14 years, 329 ft^3/s (9.317 m^3/s), 103.42 in/yr (2,627 mm/yr), 238,400 acre-ft/yr (294 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,800 ft^3/s (278 m^3/s) Sept. 15, 1967, gage height, 7.75 ft (2.362 m), from rating curve extended above 1,400 ft^3/s (40 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 6 ft^3/s (0.17 m^3/s) Jan. 17-28, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,650 ft^3/s (47 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)	Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Oct. 1	0015	2,390	67.7	4.76	1.45	Sept. 27	Unknown	*a3,000	85	Unknown	
Aug. 1	Unknown	Unknown		Unknown							

a Estimated.

Minimum daily discharge, 12 ft^3/s (0.34 m^3/s) Feb. 28 to Mar. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	32	21	20	43	12	14	155	265	961	2000	560
2	590	31	20	18	36	12	15	157	366	786	1500	500
3	621	31	20	17	30	12	16	157	439	659	1100	450
4	419	32	18	16	25	12	16	165	394	621	920	410
5	293	38	17	15	21	13	17	171	326	713	800	380
6	232	35	16	15	18	14	18	173	344	786	720	360
7	185	33	16	15	16	16	20	173	385	926	700	450
8	155	32	16	15	16	22	24	152	394	1210	760	600
9	127	31	16	14	16	16	34	142	380	1350	980	780
10	104	32	16	14	19	14	46	195	366	1040	1300	700
11	84	39	16	14	22	14	41	195	444	886	1100	600
12	88	62	16	14	18	14	37	188	399	902	1000	500
13	137	52	17	14	16	14	32	168	444	831	900	450
14	135	46	17	14	15	15	32	142	449	846	800	540
15	123	41	17	14	13	16	32	132	454	846	720	700
16	176	36	18	15	13	18	35	137	536	918	640	960
17	135	33	18	16	13	20	39	142	706	685	600	860
18	94	32	19	19	13	26	50	165	652	584	600	760
19	83	31	19	28	13	21	61	142	525	685	720	700
20	98	31	20	37	13	19	81	125	491	987	780	800
21	83	31	22	56	13	18	81	132	491	1220	680	900
22	84	30	25	46	13	16	77	150	486	1030	620	1000
23	68	29	28	40	14	15	77	150	491	831	560	900
24	84	28	32	34	15	14	77	135	536	720	520	820
25	61	27	39	30	16	14	118	171	621	665	500	1100
26	48	26	47	30	14	14	125	176	699	633	500	1900
27	41	24	41	30	13	14	125	165	778	685	560	2700
28	35	23	34	30	12	14	130	160	823	713	680	1900
29	35	22	30	35	12	14	132	147	1070	969	760	1200
30	35	21	26	40	---	14	142	157	1100	1450	700	800
31	34	---	23	50	---	14	---	225	---	1730	620	---
TOTAL	5837	991	700	765	511	481	1744	4944	15854	27868	25340	25280
MEAN	188	33.0	22.6	24.7	17.6	15.5	58.1	159	528	899	817	843
MAX	1350	62	47	56	43	26	142	225	1100	1730	2000	2700
MIN	34	21	16	14	12	12	14	125	265	584	500	360
CFSM	4.35	.76	.52	.57	.41	.36	1.34	3.68	12.2	20.8	18.9	19.5
IN.	5.03	.85	.60	.66	.44	.41	1.50	4.26	13.65	24.00	21.82	21.77
AC-FT	11580	1970	1390	1520	1010	954	3460	9810	31450	55280	50260	50140

CAL YR 1975 TOTAL 122043 MEAN 334 MAX 2920 MIN 16 CFSM 7.73 IN 105.09 AC-FT 242100
WTR YR 1976 TOTAL 110315 MEAN 301 MAX 2700 MIN 12 CFSM 6.97 IN 94.99 AC-FT 218800

15056200 WEST CREEK NEAR SKAGWAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-67, 1969, 1971-72, and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JAN						
21...	1625	57	48	--	--	14.8
MAY						
12...	1900	199	52	7.6	5.5	--

15056210 TAIYA RIVER NEAR SKAGWAY

LOCATION.--Lat 59°30'43", long 135°20'40", in NE¼SE¼ sec.22, T.27 S., R.59 E., Hydrologic Unit 19060000, on the left bank at the upstream side of highway bridge 1 mi (1.6 km) downstream from West Creek, 2.2 mi (3.5 km) above mouth of Taiya Inlet, and 4 mi (6 km) north of Skagway.

DRAINAGE AREA.--179 mi² (464 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about 20 ft (6 m), from observations of high tides.

REMARKS.--Records good except those for Oct. 28 to Mar. 15 and for a period of no gage height record, Aug. 3 to Sept. 28, which are poor. Streamflow is augmented and large diurnal fluctuations are caused by meltage from glaciers that cover 37 percent of the basin.

AVERAGE DISCHARGE.--7 years, 1,107 ft³/s (31.35 m³/s), 83.98 in/yr (2,133 mm/yr), 802,000 acre-ft/yr (989 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Sept. 27, 1976, gage height, 18.43 ft (5.617 m), from crest-stage gage; minimum daily, 16 ft³/s (0.45 m³/s) Mar. 30, 31, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1967 overflowed banks and probably reached a peak of over 25,000 ft³/s (710 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,500 ft³/s (156 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 1	0015	9,880	280	18.02	5.492	Aug. 10	Unknown	a5,500	156	Unknown	
Aug. 1	0300	6,870	195	17.19	5.240	Sept. 27	Unknown	*11,500	326	*b18.43	5.617

a Estimated.
b From crest-stage gage.

Minimum daily discharge, 49 ft³/s (1.39 m³/s) Feb. 28, 29, and Mar. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5910	220	75	105	180	49	64	973	1090	3670	6460	2000
2	2710	200	72	100	150	49	64	916	1560	3110	5980	1800
3	2610	195	66	95	130	50	65	883	1920	2710	5200	1600
4	1940	190	62	90	110	52	71	996	1670	2870	4500	1500
5	1420	190	58	85	90	54	73	939	1290	3350	3900	1400
6	1150	190	58	80	80	58	73	800	1200	2910	3400	1350
7	973	190	58	76	70	70	74	731	1480	3180	3000	1600
8	831	190	60	74	68	84	76	647	1450	3900	3600	2300
9	721	185	60	70	70	72	80	578	1490	4840	4600	2800
10	638	180	62	66	78	58	103	721	1380	4090	5200	2500
11	587	170	64	66	82	56	164	790	1750	3250	4900	2200
12	578	165	66	64	78	56	164	650	1600	3280	4500	1900
13	665	155	66	64	76	58	157	665	1570	3210	3800	1600
14	693	150	66	63	72	62	157	612	1730	3070	3200	1900
15	693	145	66	63	68	68	157	562	1760	2980	2800	2700
16	883	140	66	64	66	78	142	545	2110	3870	2600	3580
17	810	136	66	70	64	76	133	554	2800	2780	2400	3000
18	665	126	68	80	62	73	131	562	2710	2240	2800	2600
19	604	121	70	105	60	70	133	562	2050	2020	3000	2400
20	629	119	75	150	58	68	145	554	1920	3020	3100	2700
21	621	116	82	180	56	63	145	537	1890	3880	2800	3300
22	578	110	90	150	56	60	139	545	1890	3490	2600	3700
23	512	105	105	130	58	60	139	490	1810	3020	2300	3200
24	512	100	120	115	62	60	142	545	2000	2630	2000	2800
25	488	90	140	105	66	60	180	545	2400	2420	2000	4000
26	428	85	170	105	64	60	244	545	2740	2360	2000	6600
27	362	80	150	105	58	61	260	545	3000	2300	2200	8600
28	330	80	140	105	49	64	362	545	3040	2360	2600	6000
29	314	80	130	120	49	64	674	554	4040	3070	2800	3150
30	308	80	120	130	---	64	873	587	4040	4570	2400	2000
31	250	---	115	150	---	64	---	851	---	5460	2200	---
TOTAL	30413	4283	2666	3025	2230	1941	5384	20529	61380	99110	104840	86700
MEAN	981	143	86.0	97.6	76.9	62.6	179	662	2046	3197	3382	2890
MAX	5910	220	170	180	180	84	873	996	4040	5460	6460	8600
MIN	250	80	58	63	49	49	64	490	1090	2020	2000	1350
CFSM	5.48	.80	.48	.55	.43	.35	1.00	3.70	11.4	17.9	18.9	16.1
IN.	6.32	.89	.55	.63	.46	.40	1.12	4.27	12.76	20.60	21.79	18.02
AC-FT	60320	8500	5290	6000	4420	3850	10680	40720	121700	196600	208000	172000

CAL YR 1975 TOTAL 435197 MEAN 1192 MAX 9620 MIN 52 CFSM 6.66 IN 90.44 AC-FT 863200
WTR YR 1976 TOTAL 422501 MEAN 1154 MAX 8600 MIN 49 CFSM 6.45 IN 87.80 AC-FT 838000

15056210 TAIYA RIVER NEAR SKAGWAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-74, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
JAN 22...	1000	155	60	--	.0	--	12.8
MAR 18...	1300	74	100	7.5	.5	1	--
MAY 12...	1015	642	67	7.4	3.0	4	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR 18...	1300	74	.5	1	1	.20
MAY 12...	1015	642	3.0	4	3	5.2
SEP 29...	1010	3150	4.0	25	125	1060

15059500 WHIPPLE CREEK NEAR WARD COVE

LOCATION.--Lat 55°26'30", long 131"47'38", Gateway Borough, Hydrologic Unit 19060000, on Revillagigedo Island, on left bank 350 ft (107 m) upstream from old highway bridge on North Tongass Highway, 0.35 mi (0.56 km) upstream from mouth at Tongass Narrows, 2 mi (3 km) south of village of Knudsen Cove, and 3.4 mi (5.5 km) northwest of Ward Cove Post Office.

DRAINAGE AREA.--5.29 mi^3 (13.70 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (27 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--8 years, 34.6 ft^3/s (0.980 m^3/s), 88.82 in/yr (2,256 mm/yr), 25,070 acre-ft/yr (30.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Nov. 19, 1968, gage height, 8.73 ft (2.661 m), from rating curve extended above 600 ft^3/s (17 m^3/s); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Jan. 14-16, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 582 ft^3/s (16.5 m^3/s) Sept. 13 (1815 hrs), gage height, 5.23 ft (1.594 m), only peak above base of 400 ft^3/s (11.3 m^3/s); minimum daily, 5.0 ft^3/s (0.14 m^3/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	56	10	27	78	8.0	14	57	25	25	15	9.5
2	23	80	9.0	22	38	7.0	16	48	24	28	11	8.4
3	36	98	8.0	19	29	6.0	19	150	24	25	9.0	9.9
4	40	72	8.0	16	21	6.0	21	111	23	23	7.0	18
5	67	56	7.0	15	17	5.0	22	38	21	21	6.0	28
6	44	35	9.0	13	15	7.0	24	60	21	22	5.7	17
7	26	30	17	11	164	7.0	20	34	23	22	6.3	12
8	17	24	27	9.0	94	8.0	31	29	16	24	6.0	86
9	14	23	30	9.0	45	8.0	33	109	17	27	14	96
10	11	22	27	8.0	28	9.0	31	100	19	25	137	27
11	9.7	41	23	8.0	20	9.0	30	89	22	23	78	18
12	9.0	45	20	7.0	18	10	30	107	21	22	68	22
13	9.3	38	17	7.0	15	10	31	58	19	22	55	224
14	9.0	34	14	7.0	12	8.0	55	36	18	22	23	89
15	52	28	12	9.0	11	9.0	27	30	18	23	17	118
16	166	25	11	30	10	16	23	27	21	26	13	40
17	40	22	10	110	9.0	30	30	39	25	33	11	24
18	114	19	25	110	9.0	45	34	29	29	50	11	19
19	170	16	80	80	8.0	60	107	24	34	56	17	15
20	155	14	120	70	10	66	39	25	29	45	20	13
21	120	14	105	64	26	55	26	29	26	31	18	11
22	75	15	72	75	54	48	21	44	24	28	13	16
23	49	15	74	58	40	36	59	33	25	26	10	13
24	36	17	85	45	30	30	52	26	28	28	8.8	15
25	30	19	100	35	19	26	38	38	31	30	8.2	140
26	25	19	110	48	14	23	30	46	28	35	8.3	129
27	22	18	100	60	11	20	36	30	25	41	13	100
28	18	15	90	74	10	19	54	42	24	48	14	92
29	15	12	70	83	9.0	18	62	43	21	35	10	78
30	25	11	52	105	---	16	55	30	22	28	9.5	65
31	38	---	37	140	---	15	---	26	---	22	8.1	---
TOTAL	1505.0	933	1379.0	1374.0	864.0	640.0	1078	1587	703	916	650.9	1552.8
MEAN	48.5	31.1	44.5	44.3	29.8	20.6	35.9	51.2	23.4	29.5	21.0	51.8
MAX	170	98	120	140	164	66	107	150	34	56	137	224
MIN	9.0	11	7.0	7.0	8.0	5.0	14	24	16	21	5.7	8.4
CFSM	9.17	5.88	8.41	8.37	5.63	3.89	6.79	9.68	4.42	5.58	3.97	9.79
IN.	10.58	6.56	9.70	9.66	6.07	4.50	7.58	11.16	4.94	6.44	4.58	10.92
AC-FT	2990	1850	2740	2730	1710	1270	2140	3150	1390	1820	1290	3080

CAL YR 1975 TOTAL 9533.1 MEAN 26.1 MAX 170 MIN 4.0 CFSM 4.93 IN 67.03 AC-FT 18910
WTR YR 1976 TOTAL 13182.7 MEAN 36.0 MAX 224 MIN 5.0 CFSM 6.81 IN 92.69 AC-FT 26150

15059500 WHIPPLE CREEK NEAR WARD COVE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-72 and 1974 to current year.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT					
09...	1400	15	44	6.9	8.0
NOV					
18...	2030	19	40	--	2.0
APR					
12...	1530	29	36	--	3.0
JUN					
08...	1500	15	32	6.7	7.5

15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23'30", long 131°11'40", Gateway Borough, Hydrologic Unit 1906000, on Revillagigedo Island, in Tongass National Forest, on right bank 100 ft (30 m) upstream from outlet of Low Lake, 750 ft (230 m) upstream from mouth at Thorne Arm, and 18 mi (29 km) east of Ketchikan. Prior to Oct. 4, 1975 at site 50 ft (15 m) downstream.

DRAINAGE AREA.--32.1 mi² (83.1 km²), excludes that of Granite Lake drainage basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1915 to October 1935, October 1938 to current year. Prior to October 1945, monthly discharge only. Prior to January 1921, published as "near Sea Level, Revillagigedo Island."

REVISED RECORDS.--WSP 1372: 1918.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m) by barometer. Prior to October 1935, at site 50 ft (15 m) downstream at different datum. October 1935 to Oct. 3, 1975, at prior site and present datum.

REMARKS.--Records good except those for period of no gage-height record, Apr. 12 to June 6, which are poor.

AVERAGE DISCHARGE.--58 years, 425 ft³/s (12.04 m³/s), 179.80 in/yr (4,567 mm/yr), 307,900 acre-ft/yr (380 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s (153 m³/s) Oct. 15, 1961, gage height, 8.85 ft (2.697 m), site then in use, from rating curve extended above 3,600 ft³/s (102 m³/s); minimum daily, 20 ft³/s (0.57 m³/s) Sept. 9, 10, 1928.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) Jan. 31 (1645 hrs), gage height, 4.02 ft (1.225 m), only peak above base of 2,200 ft³/s (62 m³/s); minimum daily, 63 ft³/s (1.78 m³/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	634	110	312	2220	92	156	680	380	719	496	286
2	496	859	103	247	1750	82	186	720	390	702	437	242
3	389	1160	95	207	1080	75	252	730	400	600	389	312
4	389	919	87	178	651	68	229	700	410	535	350	409
5	617	609	87	163	416	63	220	580	420	535	322	481
6	728	409	92	139	301	66	291	510	435	592	296	481
7	575	322	186	121	356	68	333	440	430	609	271	382
8	423	276	444	110	559	97	328	470	496	634	260	416
9	306	238	535	100	402	103	312	500	575	702	276	1230
10	247	238	402	100	306	97	301	540	651	642	728	1370
11	203	466	301	92	247	92	322	580	659	575	1680	830
12	170	511	233	87	199	118	300	540	567	535	1540	511
13	156	430	190	82	167	110	280	480	481	519	1240	600
14	156	376	163	78	139	100	250	430	473	503	839	992
15	186	328	143	87	124	92	220	400	511	600	567	1620
16	859	281	127	356	118	163	200	430	592	792	402	1760
17	1520	252	152	1630	110	423	190	460	711	1050	312	1050
18	1420	211	416	1430	103	668	180	420	909	1510	266	617
19	1580	178	1260	1120	92	567	190	380	801	1100	256	402
20	1530	152	1770	792	95	416	195	390	702	764	306	296
21	1150	156	1180	685	178	363	180	385	609	617	350	233
22	737	156	801	961	261	389	170	390	527	559	369	199
23	511	159	737	783	261	369	180	400	567	609	317	182
24	376	167	961	535	242	322	210	420	783	626	261	194
25	312	203	1390	382	211	281	230	375	711	609	216	224
26	261	216	1210	459	174	276	300	370	626	839	194	252
27	211	186	1250	693	143	233	400	370	575	1050	356	266
28	178	159	1160	859	124	203	440	370	511	1070	728	286
29	149	136	909	755	105	199	500	365	481	830	626	376
30	156	121	651	1290	---	203	620	365	559	668	459	651
31	376	---	423	2790	---	178	---	370	---	575	350	---
TOTAL	16976	10508	17568	17623	11134	6576	8165	14560	16942	22270	15459	17150
MEAN	548	350	567	568	384	212	272	470	565	718	499	572
MAX	1580	1160	1770	2790	2220	668	620	730	909	1510	1680	1760
MIN	149	121	87	78	92	63	156	365	380	503	194	182
CFSM	17.1	10.9	17.7	17.7	12.0	6.60	8.47	14.6	17.6	22.4	15.5	17.8
IN.	19.67	12.18	20.36	20.42	12.90	7.62	9.46	16.87	19.63	25.81	17.91	19.87
AC-FT	33670	20840	34850	34960	22080	13040	16200	28880	33600	44170	30660	34020

CAL YR 1975 TOTAL 136672 MEAN 374 MAX 1770 MIN 50 CFSM 11.7 IN 158.38 AC-FT 271100
WTR YR 1976 TOTAL 174931 MEAN 478 MAX 2790 MIN 63 CFSM 14.9 IN 202.72 AC-FT 347000

15072000 FISH CREEK NEAR KETCHIKAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1968, 1971, and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT					
02...	1005	507	24	7.6	11.5
APR					
11...	1330	320	26	--	2.5

15081500 STANEY CREEK NEAR CRAIG

LOCATION.--lat 55°48'57", long 133°07'58", Hydrologic Unit 19060000, in Tongass National Forest, on Prince of Wales Island, on left bank 1.3 mi (2.1 km) upstream from mouth at Tuxekan Passage, and 23 mi (37 km) north of Craig.

DRAINAGE AREA.--51.6 mi^2 (133.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Published as Lester River near Craig, October 1964 to September 1966.

REVISED RECORDS.--WSP 2136: 1965 (M).

GAGE.--Water-stage recorder. Altitude of gage is 2 ft (0.6 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Aug. 3 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--12 years, 371 ft^3/s (10.51 m^3/s), 97.64 in/yr (2,480 mm/yr), 268,800 acre-ft/yr (331 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,600 ft^3/s (442 m^3/s) Oct. 18, 1964, gage height, 13.1 ft (3.99 m) from floodmarks, from rating curve extended above 3,000 ft^3/s (85 m^3/s); minimum daily, 8.7 ft^3/s (0.24 m^3/s) Aug. 22-25, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,680 ft^3/s (218 m^3/s) Jan. 27 (0015 hrs), gage height, 9.42 ft (2.871 m), from rating curve extended above 3,000 ft^3/s (85 m^3/s), no peak above base of 8,500 ft^3/s (240 m^3/s); minimum daily, 44 ft^3/s (1.25 m^3/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	864	487	155	304	920	86	129	603	171	165	72	115
2	323	2600	155	392	570	90	221	405	189	129	63	97
3	285	1510	138	296	310	98	800	644	175	129	57	90
4	676	698	132	260	190	110	490	692	138	118	53	120
5	666	392	148	252	160	127	324	432	124	124	49	135
6	1000	256	178	233	140	135	475	745	115	118	47	120
7	310	236	4570	214	864	165	620	639	161	113	44	105
8	214	356	2410	200	1660	342	450	403	185	107	47	600
9	173	351	440	192	333	300	505	605	161	105	56	2800
10	145	256	248	184	203	168	490	1370	165	87	150	1000
11	133	1620	210	182	175	158	401	1280	155	100	500	470
12	130	1130	190	180	129	365	308	1010	151	129	760	350
13	355	423	180	180	118	210	280	628	129	118	480	300
14	380	284	173	180	100	132	475	308	178	225	370	470
15	628	485	170	292	86	113	288	347	189	256	280	2200
16	2870	316	248	1210	74	596	210	329	196	347	215	1100
17	925	207	2320	1890	65	1260	210	284	304	700	170	600
18	759	178	3450	1070	61	807	192	218	244	410	150	350
19	2290	165	2590	1930	59	320	692	151	168	158	180	280
20	1560	148	1090	1120	80	175	417	148	168	121	270	220
21	587	171	765	1270	202	240	229	175	132	113	220	160
22	338	229	950	1520	821	415	168	178	171	288	175	130
23	284	369	675	537	316	387	204	175	626	203	150	115
24	248	485	2240	338	175	268	272	142	404	145	130	150
25	284	678	1480	280	124	229	252	196	296	210	115	220
26	214	401	1180	2430	102	221	229	218	182	272	108	1000
27	175	218	2180	3540	85	248	284	175	155	203	130	1200
28	155	189	650	1250	85	214	500	155	138	365	180	900
29	151	168	338	800	85	338	617	161	129	165	250	700
30	702	165	256	3000	---	374	602	148	148	107	160	550
31	1440	---	236	1800	---	175	---	171	---	87	135	---
TOTAL	19264	15171	30145	27526	8292	8866	11334	13135	5847	5917	5766	16647
MEAN	621	506	972	888	286	286	378	424	195	191	186	555
MAX	2870	2600	4570	3540	1660	1260	800	1370	626	700	760	2800
MIN	130	148	132	180	59	86	129	142	115	87	44	90
CFSM	12.0	9.81	18.8	17.2	5.54	5.54	7.33	8.22	3.78	3.70	3.60	10.8
IN.	13.89	10.94	21.73	19.84	5.98	6.39	8.17	9.47	4.22	4.27	4.16	12.00
AC-FT	38210	30090	59790	54600	16450	17590	22480	26050	11600	11740	11440	33020

CAL YR 1975 TOTAL 140060 MEAN 384 MAX 4570 MIN 29 CFSM 7.44 IN 100.97 AC-FT 277800
WTR YR 1976 TOTAL 167910 MEAN 459 MAX 4570 MIN 44 CFSM 8.90 IN 121.05 AC-FT 333000

15081500 STANEY CREEK NEAR CRAIG--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1966 to current year.

INSTRUMENTATION.--Temperature recorder since Apr. 18, 1966.

REMARKS.--Interruptions in the record were due to malfunctions of the equipment. No record after Mar. 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 22.5°C June 18, 1969; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum not determined; minimum recorded, 0.0°C on many days in February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
NOV						
13...	1600	322	52	7.1	3.0	--
APR						
07...	0930	585	41	7.2	1.5	--
JUN						
12...	1315	149	60	7.5	7.5	2

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT							
17...	1200	785	9.5	6.0	2	4	8.5
JUN							
12...	1315	149	--	7.5	2	2	.80

15081500 STANEY CREEK NEAR CRAIG--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1975 TO MARCH 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.5	5.0	5.0	2.0	2.0			---	---	1.0	1.0
2	9.0	8.5	5.0	5.0	2.0	2.0			---	---	2.0	1.0
3	9.0	9.0	5.0	5.0	2.0	1.5			---	---	1.5	1.0
4	9.0	8.5	5.0	5.0	1.5	1.5			---	---	1.0	1.0
5	8.5	8.0	5.0	4.0	1.5	1.5			---	---	1.0	1.0
6	8.0	7.0	4.0	4.0	1.5	1.5			---	---	1.0	1.0
7	7.0	7.0	4.0	4.0	---	---			0.0	0.0	1.0	1.0
8	7.0	7.0	4.0	3.0	---	---			0.0	0.0	---	---
9	7.0	5.0	3.0	3.0	---	---			0.0	0.0	---	---
10	5.5	4.5	3.0	3.0	---	---			0.0	0.0	---	---
11	5.0	4.5	3.0	3.0	---	---			0.0	0.0	---	---
12	6.0	5.5	3.0	3.0	---	---			0.0	0.0	---	---
13	6.0	6.0	3.5	3.0	---	---			0.0	0.0	---	---
14	6.0	6.0	3.5	3.0	---	---			0.5	0.0	---	---
15	6.0	6.0	3.0	3.0	---	---			0.0	0.0	---	---
16	6.0	6.0	3.0	3.0	---	---			0.0	0.0	---	---
17	6.5	6.0	3.0	3.0	---	---			0.0	0.0	---	---
18	6.5	6.5	3.0	3.0	---	---			0.5	0.0	---	---
19	6.5	6.5	3.0	2.0	---	---			1.0	0.5	---	---
20	6.5	6.5	3.0	3.0	---	---			0.5	0.5	---	---
21	6.5	6.5	3.5	3.0	---	---			0.5	0.5	---	---
22	6.5	6.5	3.5	3.5	---	---			0.5	0.5	---	---
23	6.5	6.0	4.0	3.5	---	---			0.5	0.5	---	---
24	6.0	6.0	4.0	4.0	---	---			0.5	0.5	---	---
25	6.0	6.0	4.0	4.0	---	---			0.5	0.0	---	---
26	6.0	6.0	4.0	3.0	---	---			0.0	0.0	---	---
27	6.0	4.0	3.0	2.0	---	---			0.5	0.0	---	---
28	4.0	3.5	2.0	2.0	---	---			1.5	0.5	---	---
29	3.5	3.5	2.0	2.0	---	---			1.5	0.5	---	---
30	4.5	3.5	2.0	2.0	---	---			---	---	---	---
31	5.0	4.5	---	---	---	---			---	---	---	---
MONTH	9.0	3.5	5.0	2.0	---	---			1.5	0.0	---	---

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in SW¼NW¼ sec.6, T.75 S., R.86 E., Hydrologic Unit 19060000, on Prince of Wales Island, in Tongass National Forest, on left bank 1,000 ft (300 m) upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mi (0.6 km) downstream from unnamed tributary, and 10 mi (16 km) south of Kasaan.

DRAINAGE AREA.--5.90 mi^2 (15.28 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--27 years, 38.0 ft^3/s (1.076 m^3/s), 87.46 in/yr (2,221 mm/yr), 27,530 acre-ft/yr (33.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 883 ft^3/s (25.0 m^3/s) Apr. 16, 1952, gage height, 6.96 ft (2.121 m), from rating curve extended above 140 ft^3/s (4.0 m^3/s); minimum recorded, 0.16 ft^3/s (0.005 m^3/s) Nov. 15, 1965, gage height, 1.10 ft (0.335 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 450 ft^3/s (12.7 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 16	0230	472	13.4	4.92	1.500	Jan. 30	1200	*558	15.8	*5.40	1.646
Dec. 25	0130	470	13.3	4.93	1.503						

Minimum daily discharge, 7.6 ft^3/s (0.22 m^3/s) Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	47	14	21	100	13	23	110	43	26	16	17
2	90	146	12	28	50	12	40	120	41	27	15	20
3	75	174	12	25	35	12	115	120	38	29	13	25
4	100	78	10	29	25	11	60	95	35	29	11	22
5	120	46	14	26	20	11	40	85	31	28	11	20
6	150	33	16	19	23	12	73	78	29	29	11	25
7	60	34	66	19	43	11	81	79	37	29	14	43
8	26	33	90	17	109	19	61	80	39	29	20	60
9	20	25	35	15	26	16	72	88	46	35	34	68
10	16	22	22	14	22	12	57	92	58	28	40	47
11	13	115	17	12	18	10	50	96	40	25	80	30
12	10	126	16	12	14	14	37	83	33	25	60	42
13	9.6	49	14	12	12	14	33	77	37	23	30	58
14	8.8	74	14	11	10	10	50	72	47	20	21	80
15	68	107	13	14	10	10	36	70	50	21	15	90
16	203	46	13	104	11	38	42	77	47	23	14	66
17	80	28	44	86	10	189	52	83	69	36	13	40
18	125	27	143	49	9.6	105	34	70	49	23	16	23
19	163	23	163	83	8.4	41	81	67	44	18	18	17
20	104	20	81	73	7.6	29	48	70	38	20	19	13
21	53	30	157	93	81	74	31	66	32	30	15	12
22	33	30	121	76	95	128	25	64	30	55	13	12
23	23	95	187	37	43	67	137	70	48	37	11	13
24	20	49	213	25	22	43	182	68	35	26	10	15
25	23	53	249	34	16	34	104	64	30	53	14	17
26	19	42	210	249	16	46	56	62	40	43	19	18
27	16	23	132	147	14	37	55	60	34	42	30	24
28	13	19	66	104	13	25	75	54	29	47	37	30
29	12	17	44	90	13	37	81	50	30	28	22	38
30	19	15	29	388	---	39	100	48	28	22	17	49
31	64	---	23	188	---	25	---	45	---	19	14	---
TOTAL	1846.4	1626	2240	2100	876.6	1144	1931	2363	1187	925	673	1034
MEAN	59.6	54.2	72.3	67.7	30.2	36.9	64.4	76.2	39.6	29.8	21.7	34.5
MAX	203	174	249	388	109	189	182	120	69	55	80	90
MIN	8.8	15	10	11	7.6	10	23	45	28	18	10	12
CFSM	10.1	9.19	12.3	11.5	5.12	6.25	10.9	12.9	6.71	5.05	3.68	5.85
IN.	11.64	10.25	14.12	13.24	5.53	7.21	12.17	14.90	7.48	5.83	4.24	6.52
AC-FT	3660	3230	4440	4170	1740	2270	3830	4690	2350	1830	1330	2050

CAL YR 1975 TOTAL 14159.7 MEAN 38.8 MAX 249 MIN 4.8 CFSM 6.58 IN 89.26 AC-FT 28090
WTR YR 1976 TOTAL 17946.0 MEAN 49.0 MAX 388 MIN 7.6 CFSM 8.31 IN 113.13 AC-FT 35600

15085100 OLD TOM CREEK NEAR KASAAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959, and 1965 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1964 to current year.

INSTRUMENTATION.--Temperature recorder since October 1964.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.0°C July 30, 1971; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 15.5°C Aug. 2-4, 6; minimum, 0.0°C on some days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 06...	1100	149	46	7.4	11.0	9.0	60	4	11.4
NOV 18...	1715	28	42	--	--	3.5	30	2	13.2
FEB 04...	1600	28	51	--	.0	1.0	--	1	13.1
APR 09...	1300	68	36	--	4.0	2.5	--	1	13.6
JUN 05...	1600	31	37	6.9	--	5.5	7	1	12.2
AUG 04...	0845	12	49	--	--	13.0	--	--	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 06...	.3	2.7	.03	.02	.32	.34	.37	.01
NOV 18...	.9	2.4	.01	.02	.02	.04	.05	.00
FEB 04...	--	--	--	--	--	--	--	--
APR 09...	.9	4.6	.03	.04	.17	.21	.24	.02
JUN 05...	--	--	.01	.01	.09	.10	.11	.01
AUG 04...	.4	6.0	.03	.00	.26	.26	.29	.01

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 06...	1100	10	100	0	--	30
NOV 18...	1715	20	80	5	.0	4
APR 09...	1300	10	110	10	.1	30
AUG 04...	0845	<10	110	0	1.1	0

15085100 OLD TOM CREEK NEAR KASAAN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT			
06...	1100	7.5	5.0
NOV			
18...	1715	4.5	3.0
APR			
09...	1300	4.9	2.0
JUN			
05...	1600	4.0	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT							
06...	1100	149	11.0	9.0	4	9	3.6
NOV							
18...	1715	28	--	3.5	2	4	.30
FEB							
04...	1600	28	.0	1.0	1	3	.23
APR							
09...	1300	68	4.0	2.5	1	1	.18
JUN							
05...	1600	31	--	5.5	1	0	.00

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	1.5	1.0	1.5	1.0	2.5	2.0	0.5	0.5
2			---	---	1.0	0.5	1.5	1.5	2.5	1.5	0.5	0.5
3			---	---	1.0	0.5	2.0	1.5	1.5	1.0	0.5	0.5
4			---	---	0.5	0.0	2.0	1.0	1.0	1.0	0.5	0.5
5			---	---	0.0	0.0	1.0	0.5	1.0	0.5	0.5	0.5
6			---	---	0.0	0.0	0.5	0.0	1.5	0.5	0.5	0.5
7			---	---	1.0	0.0	0.0	0.0	1.5	1.0	0.5	0.5
8			---	---	1.5	1.5	0.5	0.0	1.5	1.0	0.5	0.5
9			---	---	1.5	1.0	0.5	0.0	1.0	1.0	1.0	0.5
10			---	---	1.0	0.5	0.5	0.0	1.5	1.0	1.0	0.5
11			---	---	0.5	0.5	0.5	0.5	1.5	1.0	1.0	0.5
12			---	---	0.5	0.0	0.5	0.0	1.5	1.0	1.5	0.5
13			---	---	0.5	0.0	0.0	0.0	1.0	0.5	1.5	0.5
14			---	---	0.5	0.0	0.5	0.0	0.5	0.0	1.5	1.0
15			---	---	1.0	0.5	0.5	0.5	0.5	0.5	2.0	1.0
16			---	---	1.5	1.0	1.0	0.5	1.0	0.5	1.5	0.5
17			---	---	1.5	1.0	1.5	1.0	1.0	1.0	1.0	0.5
18			3.5	3.0	2.0	1.0	1.5	1.5	1.0	0.5	2.0	1.0
19			3.0	2.5	2.0	2.0	2.0	1.5	0.5	0.0	2.0	0.5
20			3.0	2.5	2.5	2.0	2.0	1.5	0.5	0.5	2.0	0.5
21			3.0	3.0	2.5	2.0	2.0	2.0	1.0	0.5	1.0	1.0
22			3.5	3.0	2.5	2.0	2.0	1.5	1.0	1.0	1.5	1.0
23			3.5	3.0	2.5	2.0	1.5	1.0	1.0	1.0	2.0	1.0
24			4.0	3.5	2.5	2.5	1.0	1.0	1.0	0.5	2.0	1.0
25			3.5	3.0	2.5	2.0	1.0	0.5	0.5	0.5	1.5	0.5
26			3.0	2.5	3.0	2.5	1.5	1.0	0.5	0.5	1.5	0.5
27			2.0	2.0	2.5	2.0	2.0	1.5	0.5	0.5	2.0	1.0
28			2.0	1.5	2.0	2.0	2.0	1.5	0.5	0.5	2.5	1.5
29			1.5	1.0	2.0	0.5	2.0	2.0	0.5	0.5	1.5	0.5
30			1.5	1.5	1.5	1.0	2.0	1.5	---	---	1.5	1.0
31			---	---	1.0	1.0	2.5	2.0	---	---	2.0	1.0
MONTH			---	---	3.0	0.0	2.5	0.0	2.5	0.0	2.5	0.5

15085100 OLD TOM CREEK NEAR KASAAN--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	3.5	3.0	7.5	4.5	7.5	6.5	15.0	12.5	11.5	10.0
2	1.5	0.5	4.5	3.0	6.0	5.5	8.5	6.5	15.5	12.5	11.0	9.5
3	1.5	1.0	3.5	3.0	6.5	5.5	8.0	7.0	15.5	13.0	11.0	10.0
4	2.5	1.0	4.0	3.0	6.5	5.5	9.0	7.0	15.5	13.0	10.5	9.5
5	1.5	1.0	4.0	3.0	7.0	3.5	9.5	7.5	14.0	12.5	10.5	9.5
6	2.0	1.5	4.0	3.0	6.5	2.5	9.0	8.0	15.5	12.5	11.0	10.0
7	2.5	1.5	4.0	3.5	6.5	3.0	9.5	8.0	14.5	12.0	11.0	9.5
8	2.5	1.5	4.5	3.5	4.5	3.5	9.5	8.0	14.0	13.5	11.0	10.5
9	2.5	1.5	4.0	3.5	4.5	3.5	9.0	8.5	13.5	13.0	11.5	10.5
10	2.5	2.0	4.0	3.5	5.0	4.0	10.0	8.0	13.5	12.5	11.5	10.5
11	3.0	1.5	4.0	3.5	5.0	3.5	9.5	8.5	12.5	11.5	11.0	9.5
12	3.0	1.5	4.5	3.5	5.5	3.0	10.0	8.5	11.5	11.0	10.0	9.0
13	3.0	1.5	5.0	3.5	5.0	4.0	10.0	9.0	12.0	10.5	10.0	9.0
14	3.0	1.5	4.5	3.5	5.0	4.0	10.5	9.5	12.5	10.0	10.5	10.0
15	4.0	2.0	4.5	4.0	7.5	4.5	10.5	9.5	13.0	11.5	10.5	10.0
16	2.5	1.5	5.5	3.5	7.5	4.5	10.5	9.5	12.5	10.5	10.5	9.0
17	3.0	1.5	5.5	4.0	5.5	5.0	10.0	8.5	12.5	10.5	9.5	8.5
18	3.5	2.0	5.0	4.0	5.5	4.5	10.5	8.5	11.5	10.5	10.0	9.0
19	2.5	2.0	5.5	3.5	5.5	5.0	10.0	8.5	11.5	10.5	10.0	9.0
20	3.0	2.0	5.0	4.0	6.0	5.0	11.0	9.5	11.5	10.5	10.0	9.0
21	3.0	2.0	5.0	4.0	6.5	5.0	10.5	9.5	11.0	9.5	11.5	10.0
22	4.5	2.0	5.5	4.0	7.0	5.5	10.0	9.0	10.5	9.0	11.0	10.5
23	3.0	2.0	6.5	4.0	6.0	5.0	10.0	9.0	12.5	10.0	10.5	10.0
24	2.5	2.0	5.5	4.5	5.5	5.0	10.5	9.5	11.0	9.5	11.5	10.5
25	4.0	2.5	6.0	4.5	6.0	5.5	10.0	9.5	11.0	9.5	11.5	11.0
26	5.0	2.5	6.0	4.0	6.0	5.5	10.5	9.0	10.5	10.0	11.0	11.0
27	5.0	2.0	7.0	4.0	8.0	5.5	10.0	9.5	10.5	9.5	11.0	10.5
28	5.0	2.5	6.0	4.5	7.5	5.5	11.5	9.5	11.0	10.0	11.0	10.0
29	5.0	2.5	7.0	4.0	9.0	6.0	13.0	10.0	11.0	10.0	10.0	9.5
30	4.0	3.0	7.0	4.5	7.5	6.5	15.0	11.5	11.5	10.5	9.5	8.5
31	---	---	7.5	5.0	---	---	15.0	12.0	11.5	10.5	---	---
MONTH	5.0	0.5	7.5	3.0	9.0	2.5	15.0	6.5	15.5	9.0	11.5	8.5
YEAR	15.5	0.0										

15086600 BIG CREEK NEAR POINT BAKER

LOCATION.--Lat 56°07'54", long 133°08'56", Hydrologic Unit 19060000, on Prince of Wales Island, in Tongass National Forest, on left bank 1 mi (1.6 km) upstream from mouth at Whale Passage, 2.5 mi (4.5 km) downstream from small unnamed lake, and 24 mi (39 km) southeast of Point Baker.

DRAINAGE AREA.--11.2 mi^2 (29.0 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--13 years, 88.0 ft^3/s (2.492 m^3/s), 106.70 in/yr (2,710 mm/yr), 63,760 acre-ft/yr (78.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum discharge, 2,390 ft^3/s (67.7 m^3/s) Sept. 3, 1966, gage height, 5.28 ft (1.609 m), from rating curve extended above 300 ft^3/s (8.5 m^3/s); minimum daily, 0.8 ft^3/s (0.023 m^3/s) Aug. 25, 28, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Jan. 30 (1915 hrs), gage height, 4.73 ft (1.442 m), from rating curve extended above 300 ft^3/s (8.5 m^3/s), only peak above base of 900 ft^3/s (25.5 m^3/s); minimum daily, 12.0 ft^3/s (0.340 m^3/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	136	40	70	687	28	47	162	38	36	42	25
2	128	237	35	68	553	25	59	155	37	33	37	23
3	101	371	33	66	237	20	134	199	35	32	26	25
4	109	232	35	64	134	20	109	243	33	30	22	25
5	93	151	40	46	90	22	98	226	29	30	19	34
6	99	103	45	37	61	44	117	274	26	28	16	32
7	78	75	80	35	74	38	134	214	25	25	13	27
8	61	68	192	31	130	61	118	168	25	24	12	171
9	47	58	103	28	68	51	132	168	26	23	15	563
10	38	46	71	25	51	37	149	206	26	22	85	204
11	33	138	54	22	40	36	153	224	26	20	130	113
12	35	219	47	20	33	42	142	221	26	19	197	78
13	58	140	42	18	27	35	122	192	24	20	173	69
14	53	99	40	18	35	27	157	134	32	49	106	124
15	86	91	36	29	43	25	117	113	33	62	75	563
16	229	71	46	117	39	132	99	93	33	72	58	243
17	187	58	128	175	47	221	93	80	40	118	47	146
18	130	50	364	206	50	178	98	71	47	113	39	88
19	245	44	447	465	50	122	216	59	46	77	83	66
20	226	39	325	339	50	91	157	53	41	63	91	51
21	155	42	211	292	48	94	115	52	35	59	72	40
22	108	50	180	301	81	113	94	48	36	104	58	34
23	80	62	185	175	57	99	98	50	36	134	48	27
24	74	98	401	113	43	94	111	45	108	94	42	29
25	69	171	360	86	34	83	113	43	81	106	35	47
26	56	134	292	192	39	88	115	50	66	126	31	206
27	46	90	409	426	45	78	122	48	61	104	36	216
28	37	68	224	286	35	66	138	45	51	120	45	164
29	34	54	134	194	33	75	155	53	45	90	53	153
30	103	44	91	942	---	71	157	47	39	70	38	175
31	248	---	68	901	---	56	---	42	---	53	32	---
TOTAL	3243	3239	4758	5787	2914	2172	3669	3778	1206	1956	1776	3761
MEAN	105	108	153	187	100	70.1	122	122	40.2	63.1	57.3	125
MAX	248	371	447	942	687	221	216	274	108	134	197	563
MIN	33	39	33	18	27	20	47	42	24	19	12	23
CFSM	9.38	9.64	13.7	16.7	8.93	6.26	10.9	10.9	3.59	5.63	5.12	11.2
IN.	10.77	10.76	15.80	19.22	9.68	7.21	12.19	12.55	4.01	6.50	5.90	12.49
AC-FT	6430	6420	9440	11480	5780	4310	7280	7490	2390	3880	3520	7460

CAL YR 1975 TOTAL 28538.8 MEAN 78.2 MAX 447 MIN 7.8 CFSM 6.98 IN 94.78 AC-FT 56610
WTR YR 1976 TOTAL 38259.0 MEAN 105 MAX 942 MIN 12 CFSM 9.38 IN 127.06 AC-FT 75890

15086600 BIG CREEK NEAR POINT BAKER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1963 to Curreny year.

INSTRUMENTATION.--Temperature recorder since Aug. 30, 1963.

REMARKS.--Temperature recorder malfunction Feb. 4 to June 13, and Aug. 3 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.5°C June 13, 1969; minimum 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum, 19.0°C July 31 and Aug. 2; minimum, 0.0°C on several days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 15...	1430	92	--	--	9.5	9.0	60	3	--
NOV 12...	1530	239	130	--	--	4.0	40	1	13.2
FEB 05...	1415	84	122	--	--	2.0	--	--	--
APR 08...	1430	112	110	7.6	--	3.0	--	1	13.0
JUN 13...	1625	30	120	8.4	--	12.5	12	0	11.2
AUG 03...	1200	27	110	--	--	15.0	35	--	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 15...	.6	1.3	.42	.00	.44	.44	.86	.04
NOV 12...	.8	.8	.17	.00	.36	.36	.53	.00
FEB 05...	--	--	--	--	--	--	--	--
APR 08...	.2	2.0	.37	.04	.03	.07	.44	.01
JUN 13...	--	--	.03	.01	.09	.10	.13	.02
AUG 03...	.7	1.1	.21	.00	.33	.33	.54	.00

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 15...	1430	10	90	6	--	10
NOV 12...	1530	30	160	5	.4	2
APR 08...	1430	<10	240	0	.6	20
AUG 03...	1200	<10	90	0	1.1	20

15086600 BIG CREEK NEAR POINT BAKER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT			
15...	1430	6.9	4.0
NOV			
12...	1530	9.6	4.0
APR			
08...	1430	3.4	2.0
JUN			
13...	1625	3.1	--
AUG			
03...	1200	5.9	.6

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT							
15...	1430	92	9.5	9.0	3	10	2.5
NOV							
12...	1530	239	--	4.0	1	5	3.2
APR							
08...	1430	112	--	3.0	1	1	.30
JUN							
13...	1625	30	--	12.5	0	1	.08

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	6.0	5.0	2.5	1.5	2.5	1.5	3.5	3.5		
2	---	---	6.0	4.5	2.5	0.0	3.0	2.5	3.5	2.5		
3	---	---	5.5	4.5	1.0	0.5	3.0	2.5	3.0	2.5		
4	12.5	10.5	6.0	4.5	0.5	0.5	3.0	2.5	3.0	2.5		
5	---	---	5.0	5.0	0.5	0.5	2.5	1.0	---	---		
6	---	---	5.0	4.5	0.5	0.0	1.0	0.5	---	---		
7	12.0	7.0	5.0	3.5	2.0	0.0	0.5	0.0	---	---		
8	14.0	7.5	4.5	2.5	2.5	2.0	1.0	0.0	---	---		
9	---	---	4.5	4.0	2.5	1.0	0.5	0.0	---	---		
10	---	---	4.5	3.0	2.5	1.5	1.5	0.5	---	---		
11	10.5	1.5	4.0	2.5	2.5	1.5	2.0	1.0	---	---		
12	7.5	5.0	4.5	3.5	2.0	1.0	1.5	1.0	---	---		
13	---	---	4.5	3.5	2.0	0.5	1.5	0.5	---	---		
14	6.5	5.0	4.5	3.5	2.0	0.5	2.0	1.0	---	---		
15	9.0	8.5	4.5	4.0	2.5	0.0	2.0	1.5	---	---		
16	8.5	8.0	4.5	2.5	2.5	1.0	2.5	2.0	---	---		
17	---	---	4.0	3.0	3.0	2.5	3.0	2.5	---	---		
18	8.5	8.5	4.5	3.5	3.0	2.5	3.0	2.5	---	---		
19	8.0	8.0	4.0	3.5	3.0	2.5	3.0	2.5	---	---		
20	8.5	8.0	4.0	2.5	3.5	3.0	3.0	3.0	---	---		
21	8.5	7.0	4.5	3.5	3.5	2.5	3.0	3.0	---	---		
22	8.5	7.0	4.5	3.5	3.5	3.0	3.5	2.5	---	---		
23	8.0	7.0	5.0	2.5	3.5	3.5	3.0	1.5	---	---		
24	7.5	7.0	4.5	3.5	3.5	3.0	3.0	2.0	---	---		
25	8.0	7.0	4.5	4.0	4.0	3.5	2.5	1.5	---	---		
26	8.0	6.5	4.0	3.0	4.0	3.5	3.0	2.5	---	---		
27	7.0	5.5	3.5	2.5	3.5	2.5	3.5	2.5	---	---		
28	7.0	4.5	3.0	2.5	3.5	3.0	3.5	3.0	---	---		
29	7.0	5.5	3.0	2.5	3.5	2.0	3.5	2.5	---	---		
30	6.0	4.5	2.5	2.0	2.5	1.0	3.5	2.5	---	---		
31	6.5	5.5	---	---	3.0	2.0	3.5	2.5	---	---		
MONTH	---	---	6.0	2.0	4.0	0.0	3.5	0.0	---	---		

15086600 BIG CREEK NEAR POINT BAKER--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	13.0	10.0	18.0	13.5		
2					---	---	15.0	10.0	19.0	13.5		
3					---	---	15.0	10.0	---	---		
4					---	---	13.5	10.0	---	---		
5					---	---	16.0	11.5	---	---		
6					---	---	14.0	11.5	---	---		
7					---	---	16.0	11.5	---	---		
8					---	---	13.0	12.0	---	---		
9					---	---	15.0	10.0	---	---		
10					---	---	18.0	10.5	---	---		
11					---	---	15.5	12.0	---	---		
12					---	---	15.0	12.5	---	---		
13					---	---	15.0	12.0	---	---		
14					11.5	9.0	12.5	11.0	---	---		
15					17.0	9.5	14.0	10.0	---	---		
16					19.0	11.0	12.5	10.0	---	---		
17					13.5	10.5	11.0	10.0	---	---		
18					12.0	10.5	12.5	10.5	---	---		
19					12.0	10.0	13.0	10.0	---	---		
20					13.0	10.0	12.5	11.0	---	---		
21					14.5	10.5	12.0	10.5	---	---		
22					12.5	9.0	11.0	10.0	---	---		
23					10.5	9.0	11.0	10.0	---	---		
24					11.0	9.5	12.0	10.5	---	---		
25					12.0	10.0	11.0	10.0	---	---		
26					11.0	9.5	12.5	10.0	---	---		
27					14.5	9.5	11.0	10.0	---	---		
28					15.5	9.5	13.5	10.0	---	---		
29					16.0	12.0	15.5	10.0	---	---		
30					13.5	11.5	17.0	12.0	---	---		
31					---	---	19.0	10.0	---	---		
MONTH					---	---	19.0	10.0	---	---		
YEAR	19.0	0.0										

15093400 SASHIN CREEK NEAR BIG PORT WALTER

LOCATION.--Lat 56°22'32", long 134°39'40", in NW¼SW¼ sec.28, T.63 S., R.69 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Baranof Island, in Tongass National Forest, on right bank 0.7 mi (1.1 km) upstream from mouth at Little Port Walter, 1 mi (1.6 km) downstream from Sashin Lake, and 2.6 mi (4.2 km) east of Big Port Walter.

DRAINAGE AREA.--3.72 mi^2 (9.63 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to September 1973 and October 1974 to current year.

REVISED RECORDS.--WSP 2136: Drainage area. WRD Alaska 1972: 1971 (M).

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, July 6 to Sept. 9, which are poor.

AVERAGE DISCHARGE.--10 years, 81.8 ft^3/s (2.317 m^3/s), 298.61 in/yr (7,585 mm/yr), 59,260 acre-ft/yr (73.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) Nov. 20, 1972, gage height, 4.70 ft (1.433 m), from rating curve extended above 760 ft^3/s (21.5 m^3/s) on basis of slope-area measurement of peak flow at gage height of 4.5 ft (1.37 m) from floodmarks; maximum gage height, 5.35 ft (1.631 m) Mar. 12, 1971, backwater from ice; minimum discharge, 0.75 ft^3/s (0.021 m^3/s) Jan. 30, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 4	Unknown	910	25.8	4.15	1.265	Feb. 1	1300	800	22.7	4.04	1.231
Dec. 23	2230	950	26.9	4.19	1.277	May 3	2030	*1,370	38.8	*4.58	1.396
Dec. 25	0230	1,200	34.0	4.43	1.350	Sept. 15	0330	980	27.8	4.22	1.286
Jan. 30	1700	700	19.8	3.94	1.201	Sept. 28	Unknown	1,360	38.5	4.57	1.393

Minimum daily discharge, 11 (ft^3/s) (0.31 m^3/s) Mar. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	45	19	35	533	12	26	149	54	57	47	42
2	155	76	17	48	280	12	29	169	64	54	41	37
3	155	100	16	47	122	11	38	914	66	72	37	53
4	476	66	14	45	74	11	27	621	62	70	34	61
5	238	46	14	32	48	11	23	279	59	80	31	60
6	254	40	24	25	40	22	20	245	61	78	29	58
7	125	33	61	21	339	20	22	146	62	73	28	56
8	78	30	67	19	116	27	22	100	62	69	100	52
9	48	24	30	21	61	17	29	407	57	63	150	48
10	36	34	25	19	47	14	35	498	57	60	180	37
11	30	213	22	17	36	28	48	336	51	59	210	31
12	80	86	20	15	31	22	41	224	50	61	200	33
13	57	48	22	14	27	20	69	128	64	72	110	165
14	78	38	30	13	23	15	53	98	110	82	70	261
15	162	34	20	37	21	21	39	88	98	100	37	487
16	302	28	80	68	20	101	40	72	92	120	33	136
17	172	30	134	70	18	173	47	66	86	160	29	72
18	350	34	372	126	16	128	56	59	80	120	28	47
19	360	25	477	265	16	68	77	50	66	88	28	47
20	262	21	206	232	21	48	45	101	59	68	32	35
21	134	36	247	279	16	57	38	101	54	64	42	31
22	90	29	269	162	18	70	43	92	53	65	47	27
23	57	71	622	90	16	59	58	86	80	68	28	23
24	105	51	638	61	15	41	68	74	64	72	25	237
25	100	100	629	50	14	34	59	96	64	90	33	265
26	56	43	312	144	14	34	54	78	64	110	48	187
27	41	33	257	195	14	28	54	68	56	130	58	361
28	34	26	115	140	13	24	66	59	56	100	74	828
29	30	22	70	183	13	23	84	57	59	81	90	341
30	51	22	45	587	---	20	98	54	59	68	80	273
31	40	---	37	351	---	18	---	48	---	55	53	---
TOTAL	4402	1484	4911	3411	2022	1189	1408	5563	1969	2509	2032	4391
MEAN	142	49.5	158	110	69.7	38.4	46.9	179	65.6	80.9	65.5	146
MAX	476	213	638	587	533	173	98	914	110	160	210	828
MIN	30	21	14	13	13	11	20	48	50	54	25	23
CFSM	38.2	13.3	42.5	29.6	18.7	10.3	12.6	48.1	17.6	21.7	17.6	39.2
IN.	44.01	14.84	49.10	34.10	20.21	11.89	14.08	55.62	19.68	25.08	20.31	43.90
AC-FT	8730	2940	9740	6770	4010	2360	2790	11030	3910	4980	4030	8710

CAL YR 1975 TOTAL 28129.8 MEAN 77.1 MAX 638 MIN 7.8 CFSM 20.7 IN 281.22 AC-FT 55800
WTR YR 1976 TOTAL 35291.0 MEAN 96.4 MAX 914 MIN 11 CFSM 25.9 IN 352.82 AC-FT 70000

15093400 SASHIN CREEK NEAR BIG PORT WALTER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-73 and 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to September 1973, October 1974 to current year.

INSTRUMENTATION.--Temperature recorder since Oct. 24, 1966.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.0°C July 14, 1968; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 14.0°C Aug. 3-7; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV 08...	1800	30	16	--	2.5
APR 22...	1020	38	46	7.2	--
SEP 09...	1500	48	19	7.1	10.5

TEMPERATURE (DEG. C) OF WATER. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	4.0	1.0	---	---	2.5	0.5	2.0	1.0	0.0	0.0
2	8.5	8.5	3.5	2.5	---	---	2.5	1.0	2.0	1.5	0.0	0.0
3	9.0	8.5	4.0	3.0	---	---	2.0	1.5	1.5	1.5	0.0	0.0
4	8.5	8.0	3.5	3.0	---	---	2.0	1.5	1.5	1.0	0.0	0.0
5	8.0	7.5	3.0	2.0	---	---	1.5	0.5	1.5	1.0	1.0	0.0
6	7.5	7.0	3.5	3.0	---	---	1.0	0.5	2.5	1.5	0.5	0.0
7	7.0	7.0	3.5	3.0	---	---	0.5	0.0	1.0	0.0	1.0	0.0
8	7.0	6.5	3.5	2.0	---	---	1.0	0.0	1.0	0.0	1.0	0.0
9	6.5	6.0	---	---	---	---	1.0	0.0	1.5	0.0	1.0	1.0
10	6.5	5.5	---	---	---	---	1.5	1.0	2.0	0.0	---	---
11	7.0	6.0	---	---	---	---	1.5	1.0	2.0	1.0	---	---
12	7.5	6.5	---	---	---	---	2.0	1.0	2.0	1.0	---	---
13	7.0	7.0	---	---	1.0	0.0	1.5	1.0	1.5	1.0	---	---
14	7.5	7.0	---	---	1.0	0.0	1.0	0.0	1.5	1.0	---	---
15	7.0	7.0	---	---	1.5	1.0	1.0	0.0	1.0	0.0	---	---
16	7.0	6.5	---	---	1.5	0.0	1.0	0.5	1.5	1.0	---	---
17	6.5	6.0	---	---	1.5	0.0	1.0	1.0	1.0	0.5	---	---
18	6.5	6.0	---	---	2.5	0.5	1.5	1.0	0.5	0.0	---	---
19	6.5	6.5	---	---	2.5	1.5	2.0	1.0	1.0	0.0	---	---
20	6.5	6.0	---	---	2.5	2.0	2.5	1.0	1.0	0.0	---	---
21	6.0	5.5	---	---	2.5	1.5	2.5	1.0	1.0	0.0	---	---
22	6.0	3.0	---	---	2.5	2.0	2.0	1.0	1.0	0.0	---	---
23	6.0	3.5	---	---	2.5	1.0	2.0	1.0	1.0	0.5	---	---
24	6.0	5.5	---	---	2.5	1.0	2.0	1.0	1.0	0.0	---	---
25	5.5	5.0	---	---	3.0	1.5	2.0	0.0	1.0	0.0	---	---
26	---	---	---	---	3.0	2.5	1.0	0.0	1.0	0.0	1.5	0.0
27	5.0	4.5	---	---	3.0	2.0	1.5	1.0	0.0	0.0	1.5	0.0
28	4.5	4.0	---	---	3.0	3.0	2.0	1.0	0.0	0.0	1.5	0.5
29	4.5	4.0	---	---	3.0	2.5	2.5	0.0	0.0	0.0	1.0	0.0
30	5.0	4.5	---	---	3.0	2.0	1.5	1.0	---	---	1.0	0.0
31	4.0	3.5	---	---	3.0	1.0	2.0	2.0	---	---	1.5	0.0
MONTH	9.0	3.0	---	---	---	---	2.5	0.0	2.5	0.0	---	---

15093400 SASHIN CREEK NEAR BIG PORT WALTER--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.0	1.5	1.0	5.5	2.0	8.0	7.5	12.5	12.0	11.0	10.0
2	1.5	0.0	2.0	1.5	5.0	1.5	9.0	7.5	13.5	12.0	10.0	9.5
3	0.5	0.0	1.5	1.0	3.5	2.5	8.5	8.0	14.0	11.0	10.5	9.5
4	1.5	0.5	2.0	1.5	4.0	2.5	9.0	7.0	14.0	12.0	10.5	9.5
5	1.5	0.0	1.5	1.0	4.0	2.5	9.0	8.0	14.0	10.0	10.5	9.0
6	1.5	1.0	2.0	1.0	5.5	2.5	9.0	8.0	14.0	12.0	10.0	9.0
7	2.0	0.5	2.0	1.0	5.0	2.5	9.5	8.0	14.0	12.0	10.0	8.5
8	1.5	0.0	2.0	1.0	4.0	3.0	10.0	9.0	13.5	12.0	10.5	9.5
9	1.5	0.5	1.5	1.0	5.0	3.0	9.0	8.5	13.0	12.5	10.5	10.0
10	1.0	0.5	1.5	1.0	4.0	3.0	11.0	9.0	12.5	10.0	10.5	9.0
11	1.5	0.5	1.5	1.5	5.0	3.0	11.0	9.0	10.5	10.0	10.5	9.0
12	2.0	0.5	2.0	1.5	6.0	3.0	11.0	9.5	10.0	8.5	10.0	8.0
13	1.0	0.0	2.0	1.5	4.5	3.5	10.5	9.5	9.5	8.5	9.5	9.0
14	1.0	0.5	2.0	1.5	4.5	3.5	10.5	9.5	10.5	9.0	9.0	9.0
15	2.0	0.5	2.5	1.5	6.0	3.5	9.5	8.5	11.5	10.0	9.0	8.5
16	1.5	0.5	3.5	1.0	6.5	3.5	8.5	7.5	12.0	10.0	9.0	8.0
17	1.0	0.0	4.0	1.5	6.0	4.5	8.0	6.5	12.5	10.5	9.0	8.0
18	1.0	0.5	3.0	1.5	7.0	5.5	7.5	6.5	11.0	10.5	9.0	8.0
19	1.5	0.0	3.0	1.5	7.5	6.0	8.0	6.5	10.5	9.5	9.5	8.5
20	1.5	0.0	2.5	1.5	7.0	6.0	9.0	7.5	10.5	9.5	9.5	8.5
21	2.0	0.5	2.0	1.5	7.0	5.5	9.0	8.0	10.0	9.5	9.5	9.0
22	2.5	0.5	2.5	1.5	8.5	6.0	8.0	7.5	10.5	9.0	9.0	8.0
23	1.0	0.0	2.5	1.5	7.5	6.5	8.0	7.5	11.0	10.0	9.0	8.0
24	1.5	0.5	2.5	1.5	7.5	6.5	8.5	7.5	11.0	9.5	10.0	9.0
25	2.0	0.5	2.5	2.0	8.5	6.5	8.5	7.0	11.5	9.5	9.5	9.0
26	2.0	0.5	3.0	1.5	---	6.5	9.0	7.0	11.0	10.0	9.5	9.0
27	3.0	0.5	4.0	1.0	7.5	6.5	9.5	8.5	10.0	9.5	10.5	9.0
28	2.5	0.0	3.0	1.5	8.0	6.5	9.0	8.0	10.0	10.0	10.0	8.0
29	2.5	1.0	4.0	2.0	9.0	8.5	11.0	8.5	10.0	9.5	8.5	8.0
30	2.5	1.0	4.0	1.5	10.0	8.0	12.5	10.5	11.0	9.0	8.0	8.0
31	---	---	3.5	2.0	---	---	13.5	11.5	10.5	10.0	---	---
MONTH	3.0	0.0	4.0	1.0	10.0	1.5	13.5	6.5	14.0	8.5	11.0	8.0
YEAR	14.0	0.0										

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'46", long 135°11'06", in NW¼SE¼ sec.34, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on left bank 0.6 mi (1.0 km) above Hook Creek, 3.5 mi (5.6 km) upstream from mouth at Kadashan Bay, and 9 mi (14 km) south of Tenakee.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m), from topographic map. Prior to Oct. 24, 1969, at site 15 ft (4.6 m) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--8 years, 65.9 ft³/s (1.866 m³/s), 87.74 in/yr (2,229 mm/yr), 47,740 acre-ft/yr (58.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) Sept. 15, 1976, gage height, 6.60 ft (2.012 m), from rating curve extended above 950 ft³/s (26.9 m³/s) on basis of slope-area measurement at gage height 5.8 ft (1.77 m) from floodmarks; minimum daily, 4.0 ft³/s (0.11 m³/s) Jan. 18-21, 1970, Jan. 15-18, 1974, Feb. 11-13, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) Sept. 15, gage height, 6.60 ft (2.012 m), from rating curve extended as explained above, only peak above base of 750 ft³/s (21.2 m³/s); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 26, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	31	17	40	74	16	44	262	110	129	29	23
2	72	49	16	35	66	16	40	234	135	85	25	21
3	131	58	16	30	60	17	36	351	108	82	23	19
4	111	54	15	26	52	17	33	273	78	86	21	22
5	68	44	16	23	46	17	27	159	80	97	19	17
6	43	31	18	20	42	17	24	186	85	82	17	18
7	35	27	20	18	38	17	23	208	94	84	16	16
8	29	25	20	17	35	17	24	122	103	91	17	64
9	26	23	18	16	32	18	26	199	110	122	19	97
10	23	23	15	15	30	18	47	273	11[illegible]	71	33	50
11	22	64	14	14	29	19	50	227	139	62	70	30
12	73	41	14	13	27	21	45	173	95	59	102	21
13	97	27	13	13	26	24	46	141	97	61	57	72
14	65	21	13	14	25	29	52	129	141	54	30	257
15	113	19	13	25	24	43	35	126	143	58	23	567
16	224	18	14	69	23	133	28	115	137	59	19	126
17	76	17	80	62	21	232	28	105	135	57	17	71
18	97	16	350	56	20	124	30	95	110	44	15	50
19	154	16	90	54	19	86	64	80	97	36	15	46
20	103	16	75	52	18	62	54	81	84	38	19	39
21	67	17	56	58	17	66	50	95	80	39	21	38
22	148	18	58	54	17	124	50	118	92	40	17	51
23	66	19	100	48	17	103	65	105	105	35	16	24
24	81	98	120	46	17	77	81	86	103	29	15	58
25	61	57	150	48	17	64	80	111	92	34	13	152
26	42	35	140	52	17	65	94	111	82	36	12	237
27	34	27	140	56	17	65	94	103	80	48	13	215
28	29	21	70	54	16	56	118	85	92	48	15	247
29	29	19	55	60	16	51	171	81	103	35	14	94
30	56	18	50	74	---	48	201	80	127	33	12	88
31	42	---	46	68	---	46	---	94	---	31	17	---
TOTAL	2311	949	1832	1230	858	1708	1760	4608	3154	1865	751	2830
MEAN	74.5	31.6	59.1	39.7	29.6	55.1	58.7	149	105	60.2	24.2	94.3
MAX	224	98	350	74	74	232	201	351	143	129	102	567
MIN	22	16	13	13	16	16	23	80	78	29	12	16
CFSM	7.30	3.10	5.79	3.89	2.90	5.40	5.75	14.6	10.3	5.90	2.37	9.24
IN.	8.43	3.46	6.68	4.49	3.13	6.23	6.42	16.80	11.50	6.80	2.74	10.32
AC-FT	4580	1880	3630	2440	1700	3390	3490	9140	6260	3700	1490	5610

CAL YR 1975 TOTAL 19529.0 MEAN 53.5 MAX 397 MIN 4.0 CFSM 5.24 IN 71.22 AC-FT 38740
WTR YR 1976 TOTAL 23856.0 MEAN 65.2 MAX 567 MIN 12 CFSM 6.39 IN 86.99 AC-FT 47320

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1967 to current year.

INSTRUMENTATION.--Temperature recorder since Nov. 3, 1967.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 12.0°C Aug. 22, 1968, Aug. 18-21, 1972, and Aug. 18, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 11.0°C July 31, Aug. 4, 6; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT								
17...	1500	66	52	7.1	5.5	40	1	--
18...	1830	152	42	6.9	5.5	50	1	--
APR								
21...	1600	51	58	7.2	2.5	--	1	13.5
MAY								
03...	2045	351	34	7.3	2.0	--	1	--
04...	1130	230	35	7.3	2.0	--	2	--
05...	1000	163	40	7.3	2.0	--	2	--
05...	1725	147	42	7.3	3.0	--	0	--
10...	1425	240	29	--	2.5	--	1	--
AUG								
18...	1200	15	58	7.3	9.0	15	1	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT								
17...	.6	3.0	.08	.00	.24	.24	.32	.00
18...	.7	3.1	.07	.00	1.2	1.2	1.3	.00
APR								
21...	1.1	3.8	.14	.00	.00	.00	.14	.00
MAY								
03...	.3	3.0	.07	.04	.14	.18	.25	.01
04...	.3	2.3	.10	.01	.14	.15	.25	.01
05...	.5	2.4	.11	.01	.12	.13	.24	.01
05...	--	--	.12	.01	.14	.15	.27	.01
10...	--	--	.08	.01	.29	.30	.38	.02
AUG								
18...	.6	5.2	.15	.00	.26	.26	.41	.03

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT						
17...	1500	20	290	5	.2	4
18...	1830	30	460	5	.7	10
APR						
21...	1600	10	320	10	.1	20
MAY						
03...	2045	0	1500	20	<.5	20
04...	1130	10	170	30	<.5	10
05...	1000	0	140	10	<.5	20
AUG						
18...	1200	<10	130	0	.3	0

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT			
17...	1500	6.8	4.0
18...	1830	11	5.0
APR			
21...	1600	8.4	4.0
MAY			
03...	2045	4.6	--
04...	1130	3.3	--
05...	1000	6.2	--
05...	1725	2.9	--
10...	1425	3.5	--
AUG			
18...	1200	1.3	.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT						
01...	1945	77	8.0	1	2	.42
03...	1015	103	8.0	1	1	.28
12...	1000	25	5.5	1	1	.07
12...	1220	39	5.5	1	1	.11
12...	1400	52	5.5	1	2	.28
12...	1645	72	6.0	1	3	.58
12...	1830	98	6.0	1	6	1.6
12...	1940	140	6.0	2	11	4.2
13...	1010	103	6.0	1	1	.28
15...	1800	64	6.5	1	1	.17
15...	1850	84	6.5	1	2	.45
15...	1935	112	6.5	2	7	2.1
15...	2015	138	6.0	1	10	3.7
15...	2055	174	6.0	1	19	8.9
15...	2140	220	6.0	4	36	21
15...	2225	270	6.0	3	55	40
15...	2320	320	6.0	4	68	59
15...	2400	348	6.0	3	70	66
16...	0030	377	6.0	3	54	55
16...	0115	410	6.0	3	57	63
16...	0230	438	6.0	3	41	48
16...	0525	286	6.0	2	14	11
16...	0655	232	6.0	1	10	6.3
17...	1500	66	5.5	1	1	.18
18...	1830	152	5.5	1	4	1.6
JAN						
16...	1330	70	.0	1	3	.57
APR						
21...	1600	51	2.5	1	1	.14
MAY						
03...	2045	351	2.0	1	6	5.7
04...	1130	230	2.0	2	4	2.5
05...	1000	163	2.0	2	2	.88
10...	1425	240	2.5	1	3	1.9
AUG						
18...	1200	15	9.0	1	5	.22

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	1.5	0.5	0.5	0.0	1.5	0.0	2.0	2.0	0.0	0.0
2	---	---	1.0	0.0	0.5	0.5	1.5	0.5	2.0	1.0	0.0	0.0
3	---	---	1.5	0.5	0.5	0.5	1.5	1.5	2.0	1.5	0.0	0.0
4	---	---	2.0	0.0	0.5	0.5	1.5	0.5	2.0	1.5	0.0	0.0
5	---	---	2.0	1.5	0.5	0.0	0.5	0.0	2.0	1.5	0.0	0.0
6	---	---	2.0	1.5	0.0	0.0	0.0	0.0	2.0	1.5	0.0	0.0
7	---	---	2.0	1.5	0.0	0.0	0.0	0.0	1.5	1.0	0.0	0.0
8	---	---	2.0	1.5	0.0	0.0	0.0	0.0	1.0	0.5	0.5	0.0
9	---	---	2.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0
10	---	---	1.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	---	---
11	---	---	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	---	---
12	6.5	5.0	1.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0	---	---
13	6.5	6.0	1.5	1.0	0.0	0.0	0.0	0.0	1.5	1.0	---	---
14	6.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	1.5	1.0	---	---
15	6.5	6.0	1.5	1.0	0.0	0.0	0.0	0.0	1.5	1.0	---	---
16	6.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	---	---
17	6.0	5.0	1.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	---	---
18	5.5	5.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---
19	6.0	6.0	2.0	1.5	0.0	0.0	1.0	1.0	0.0	0.0	---	---
20	5.5	5.0	2.0	1.5	0.0	0.0	1.5	1.0	0.0	0.0	---	---
21	5.0	4.0	2.0	0.0	0.5	0.0	1.5	1.0	0.0	0.0	---	---
22	5.0	4.5	2.0	0.0	1.5	0.5	1.5	1.0	0.5	0.0	---	---
23	5.0	4.5	1.5	1.5	1.5	0.0	1.0	1.0	0.5	0.5	---	---
24	5.0	5.0	1.5	1.0	1.0	0.0	1.0	0.5	0.5	0.5	---	---
25	---	---	1.5	1.0	1.5	1.0	1.0	0.5	0.5	0.5	---	---
26	---	---	1.0	0.0	1.5	1.0	1.5	1.0	0.5	0.0	---	---
27	4.0	2.5	0.5	0.0	1.5	1.0	1.0	1.0	0.0	0.0	---	---
28	2.5	2.0	0.5	0.0	1.5	1.5	1.5	1.0	0.0	0.0	---	---
29	2.5	2.0	0.5	0.0	1.5	1.0	2.0	1.0	0.0	0.0	---	---
30	2.5	2.0	0.5	0.0	1.0	0.5	1.5	1.0	---	---	---	---
31	2.0	0.0	---	---	1.0	0.0	2.0	1.0	---	---	---	---
MONTH	---	---	2.0	0.0	1.5	0.0	2.0	0.0	2.0	0.0	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	2.0	1.5	5.5	2.5	5.5	4.5	10.5	9.0	9.5	9.0
2	---	---	2.5	0.5	5.5	2.5	6.0	4.5	10.5	9.0	9.0	8.5
3	---	---	2.0	0.5	3.5	3.0	7.0	4.5	10.5	9.0	9.5	8.0
4	---	---	2.5	1.5	4.5	3.0	6.5	5.0	11.0	9.5	9.0	8.0
5	---	---	3.0	1.5	4.5	3.0	7.5	5.0	10.5	10.0	8.5	7.0
6	---	---	2.5	1.5	5.0	3.0	6.5	5.0	11.0	9.0	8.0	6.5
7	---	---	2.5	1.5	5.0	3.0	7.5	5.5	10.0	9.5	8.0	6.0
8	---	---	3.5	1.5	4.0	3.0	8.5	5.5	10.0	9.5	9.5	8.0
9	---	---	2.5	1.5	4.5	3.0	7.0	6.5	10.0	9.5	9.5	8.0
10	---	---	2.5	0.5	5.0	3.5	7.5	6.0	10.5	9.5	9.0	8.0
11	---	---	2.5	2.0	4.0	3.0	8.5	5.5	10.0	9.5	8.0	7.0
12	---	---	3.0	2.0	4.5	3.0	7.5	6.0	10.0	9.5	7.5	6.0
13	---	---	3.0	2.0	5.5	3.5	7.0	6.5	10.0	9.5	8.5	7.5
14	---	---	3.0	2.0	4.0	3.5	8.0	6.0	10.0	9.0	8.5	8.0
15	---	---	3.5	2.0	6.5	3.5	7.5	6.5	10.0	9.0	8.5	8.0
16	---	---	4.5	2.0	6.5	3.0	7.5	6.5	10.0	9.0	8.0	7.5
17	---	---	4.0	1.5	4.5	4.0	6.5	6.0	10.0	8.5	7.5	6.5
18	---	---	3.5	2.5	4.5	3.5	7.5	6.0	9.0	9.0	7.0	6.5
19	---	---	3.5	2.5	5.0	3.5	9.0	5.5	9.5	8.0	8.5	7.5
20	---	---	3.5	2.5	5.0	3.5	8.5	7.5	10.0	9.0	8.5	8.0
21	2.5	2.0	3.5	2.0	6.5	3.5	9.0	7.5	10.0	9.0	9.0	7.5
22	3.0	1.5	3.5	2.5	5.5	4.0	8.0	7.0	9.5	8.5	9.0	7.5
23	2.0	1.5	4.0	2.0	5.0	4.0	8.5	6.5	10.0	9.0	7.5	7.0
24	2.0	1.5	4.0	2.0	4.5	4.0	8.5	6.5	10.5	9.0	9.5	7.5
25	2.5	1.5	4.5	2.5	4.5	4.0	7.5	7.0	10.0	8.0	10.0	10.0
26	2.5	2.0	3.5	2.5	5.5	4.0	8.0	7.0	9.0	8.5	10.0	9.5
27	2.0	1.5	5.0	2.0	6.0	4.0	8.0	7.0	9.5	8.0	10.0	9.0
28	2.5	1.5	5.0	2.0	7.5	4.0	9.5	7.5	10.0	9.0	10.0	7.5
29	2.5	1.5	5.0	2.5	6.0	4.5	10.0	7.0	10.0	8.5	7.5	7.0
30	2.5	1.5	5.0	2.5	5.5	4.5	10.5	8.0	10.0	8.0	7.0	6.0
31	---	---	3.5	3.0	---	---	11.0	8.5	10.0	8.0	---	---
MONTH	---	---	5.0	0.5	7.5	2.5	11.0	4.5	11.0	8.0	10.0	6.0
YEAR	11.0	0.0										

15106940 HOOK CREEK ABOVE TRIBUTARY NEAR TENAKEE

LOCATION.--Lat 57°40'39", long 135°07'42", in NW¼SE¼ sec.25, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 0.5 mi (0.8 km) upstream from unnamed tributary, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) south of Tenakee.

DRAINAGE AREA.--4.48 mi^2 (11.60 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1967 to current year.

REVISED RECORDS.--WRD Alaska 1972: 1971 (M).

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (90 m), from topographic map. Prior to May 15, 1969, water-stage recorder and wooden control at site 130 ft (39 m) downstream at datum 1.0 ft (0.30 m) lower.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) Sept. 15, 1976, gage height, 3.79 ft (1.155 m), from rating curve extended above 65 ft^3/s (1.84 m^3/s) on basis of slope-area measurement at gage height 3.7 ft (1.13 m) from floodmarks; maximum gage height, 5.71 ft (1.740 m) Mar. 13, 1972, backwater from ice; minimum daily discharge, 1.5 ft^3/s (0.042 m^3/s) Jan. 29 to Feb. 5, Dec. 23 and 24, 1971, Jan. 21-29, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 260 ft^3/s (7.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 15	2400	305	8.64	2.17	0.661	Sept. 15	0045	*1,290	36.5	*3.79	1.155

Minimum daily discharge, 5.0 ft^3/s (0.14 m^3/s) Dec. 16, Jan. 14, Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	11	6.7	17	30	5.4	6.7	144	71	67	12	11
2	38	12	6.5	15	27	5.3	6.7	118	83	50	10	7.9
3	54	14	6.3	13	25	5.2	6.7	166	67	50	9.2	9.9
4	60	14	6.2	11	23	5.2	7.6	120	47	51	8.1	7.6
5	47	12	6.0	9.5	19	5.0	8.1	80	45	55	7.6	7.6
6	27	10	7.0	8.5	18	5.1	7.6	80	50	47	7.2	8.4
7	21	9.5	8.0	7.7	15	5.1	7.6	90	63	50	6.3	7.0
8	18	8.7	8.0	7.1	15	5.2	7.6	59	67	58	6.3	28
9	17	8.1	6.8	6.4	14	5.4	10	131	73	66	6.7	47
10	15	12	5.9	6.0	13	5.6	20	142	82	38	16	15
11	14	14	5.5	5.6	12	5.9	23	118	87	34	41	11
12	38	12	5.4	5.4	12	6.3	20	90	62	32	62	9.3
13	42	9.0	5.3	5.2	11	6.7	20	70	63	33	31	70
14	40	8.0	5.2	5.0	10	7.2	25	59	87	30	14	130
15	70	7.4	5.1	10	9.7	7.2	17	58	90	32	10	323
16	131	7.0	5.0	30	9.1	40	14	62	88	32	8.6	44
17	45	6.7	150	27	8.5	50	14	58	85	37	7.6	27
18	63	6.6	120	25	8.0	40	17	45	67	27	6.3	21
19	76	6.6	40	22	7.7	31	27	38	62	22	8.0	18
20	44	6.5	26	20	7.3	12	20	42	56	20	9.3	16
21	30	6.4	22	24	6.9	17	16	60	55	22	9.3	18
22	55	6.7	23	20	6.6	45	15	74	67	21	7.1	22
23	20	7.1	46	19	6.4	26	33	62	70	18	7.1	15
24	29	32	104	19	6.2	16	35	47	64	23	6.4	32
25	25	22	73	18	6.0	12	29	62	55	19	5.6	77
26	18	14	51	21	5.8	11	35	64	54	19	5.5	107
27	15	9.5	62	23	5.6	11	42	59	50	23	6.9	97
28	13	8.0	30	22	5.6	9.7	62	47	60	23	7.0	106
29	12	7.6	21	21	5.5	9.2	101	49	64	17	6.0	34
30	11	7.0	20	30	---	9.2	114	50	102	16	5.5	28
31	11	---	20	28	---	6.7	---	56	---	14	7.8	---
TOTAL	1161	315.4	906.9	501.4	348.9	431.6	767.6	2400	2036	1046	361.4	1354.7
MEAN	37.5	10.5	29.3	16.2	12.0	13.9	25.6	77.4	67.9	33.7	11.7	45.2
MAX	131	32	150	30	30	50	114	166	102	67	62	323
MIN	11	6.4	5.0	5.0	5.5	5.0	6.7	38	45	14	5.5	7.0
CFSM	8.37	2.34	6.54	3.62	2.68	3.10	5.71	17.3	15.2	7.52	2.61	10.1
IN.	9.64	2.62	7.53	4.16	2.90	3.58	6.37	19.92	16.90	8.68	3.00	11.25
AC-FT	2300	626	1800	995	692	856	1520	4760	4040	2070	717	2690

CAL YR 1975 TOTAL 10547.1 MEAN 28.9 MAX 204 MIN 2.5 CFSM 6.45 IN 87.56 AC-FT 20920
WTR YR 1976 TOTAL 11630.9 MEAN 31.8 MAX 323 MIN 5.0 CFSM 7.10 IN 96.55 AC-FT 23070

15106940 HOOK CREEK ABOVE TRIBUTARY NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1967 to current year.

INSTRUMENTATION.--Temperature recorder since Aug. 1, 1967.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 13.0°C Aug. 16, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 10.5°C July 31; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV					
06...	1045	10	78	7.1	1.5
APR					
20...	1345	19	48	7.2	2.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	0.5	0.5			---	---	1.0	0.5	0.0	0.0
2	8.5	8.5	0.5	0.5			---	---	1.0	1.0	0.5	0.0
3	8.5	8.5	0.5	0.5			---	---	1.0	1.0	0.5	0.0
4	8.5	8.5	1.0	0.5			---	---	1.0	0.5	0.0	0.0
5	8.5	8.0	1.0	0.5			---	---	1.0	0.5	0.0	0.0
6	8.0	7.0	---	---			---	---	1.0	0.5	0.0	0.0
7	8.0	7.0	---	---			---	---	1.0	0.5	0.0	0.0
8	7.0	6.5	---	---			---	---	0.5	0.5	0.0	0.0
9	6.5	5.5	---	---			---	---	0.5	0.5	0.0	0.0
10	5.5	5.0	---	---			---	---	0.5	0.5	0.0	0.0
11	5.5	5.0	---	---			---	---	0.5	0.5	0.0	0.0
12	5.5	5.0	---	---			---	---	0.5	0.5	0.0	0.0
13	5.5	5.5	---	---			---	---	0.5	0.5	0.0	0.0
14	5.5	5.5	---	---			---	---	0.5	0.5	0.0	0.0
15	5.5	5.5	---	---			---	---	0.5	0.5	0.0	0.0
16	5.5	5.5	---	---			---	---	0.5	0.5	0.0	0.0
17	5.5	5.5	---	---			0.0	0.0	0.5	0.5	0.0	0.0
18	5.5	5.5	---	---			0.5	0.0	0.5	0.5	0.0	0.0
19	5.5	5.5	---	---			1.0	0.5	0.5	0.5	0.5	0.0
20	5.5	5.0	---	---			1.5	1.0	0.5	0.5	1.0	0.5
21	5.0	5.0	---	---			1.5	1.5	0.5	0.5	1.0	0.5
22	5.0	5.0	---	---			1.5	1.0	0.5	0.5	0.5	0.5
23	5.0	4.5	---	---			1.5	1.0	0.5	0.5	1.0	0.5
24	5.0	5.0	---	---			1.0	1.0	0.5	0.5	1.0	1.0
25	5.0	4.5	---	---			1.0	1.0	0.5	0.0	1.0	1.0
26	4.5	4.0	---	---			1.0	1.0	0.0	0.0	1.0	0.5
27	4.0	2.0	---	---			1.0	1.0	0.0	0.0	1.0	1.0
28	2.0	1.5	---	---			1.5	1.0	0.0	0.0	1.0	1.0
29	1.5	1.5	---	---			1.5	1.0	0.0	0.0	1.0	0.5
30	1.5	1.5	---	---			1.5	1.0	---	---	0.5	0.5
31	1.5	0.5	---	---			1.0	1.0	---	---	1.0	0.5
MONTH	9.0	0.5	---	---			---	---	1.0	0.0	1.0	0.0

15106940 HOOK CREEK ABOVE TRIBUTARY NEAR TENAKEE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	1.0	1.0	1.0	3.5	1.5	4.0	3.5	11.0	9.0		
2	1.0	1.0	1.0	1.0	3.5	2.0	4.5	3.5	11.0	9.0		
3	1.0	1.0	1.0	1.0	2.0	2.0	5.0	3.5	11.0	9.0		
4	1.0	1.0	1.5	1.0	3.0	2.0	5.0	4.0	11.0	9.0		
5	1.0	1.0	1.5	1.0	3.0	2.0	5.0	4.0	10.0	9.5		
6	1.5	1.0	1.0	1.0	3.0	2.0	5.0	4.0	11.0	9.0		
7	1.5	1.0	1.0	1.0	3.0	1.5	6.0	4.0	10.0	9.0		
8	1.0	1.0	1.5	1.0	3.0	2.0	6.5	4.5	9.5	9.0		
9	2.0	1.0	1.0	1.0	3.0	2.0	5.5	5.0	9.5	9.0		
10	1.0	1.0	1.0	1.0	3.0	2.0	5.5	5.0	10.0	9.0		
11	1.0	1.0	1.0	1.0	3.0	2.0	7.0	5.0	10.0	9.5		
12	1.0	1.0	1.5	1.0	3.0	2.0	5.5	5.0	9.5	9.0		
13	1.0	1.0	1.5	1.0	3.0	2.0	6.0	5.0	9.0	9.0		
14	1.0	1.0	1.5	1.0	3.0	2.0	6.0	5.0	9.0	8.0		
15	1.0	0.5	1.5	1.0	4.0	2.0	6.0	5.0	9.0	8.5		
16	1.0	1.0	2.0	1.0	4.0	2.0	6.0	5.0	9.0	8.5		
17	1.0	1.0	2.0	1.0	3.0	3.0	5.0	5.5	9.0	8.0		
18	1.5	1.0	1.5	1.5	3.5	3.0	6.0	5.0	---	---		
19	1.0	1.0	2.0	1.5	3.5	3.0	7.0	4.5	---	---		
20	2.0	1.0	3.0	2.0	3.5	3.0	8.0	6.5	---	---		
21	2.0	1.0	3.0	2.0	4.5	3.0	7.0	6.5	---	---		
22	2.0	1.0	3.0	2.0	3.5	3.0	6.5	6.5	---	---		
23	1.5	1.0	3.0	2.0	3.5	3.0	7.0	6.0	---	---		
24	1.5	1.0	3.0	2.0	3.5	3.0	7.0	6.0	---	---		
25	2.0	1.0	3.5	2.0	3.5	3.0	6.5	6.0	---	---		
26	1.5	1.0	3.0	2.0	4.0	3.0	6.5	6.0	---	---		
27	1.5	1.0	3.5	2.0	4.0	3.0	6.5	6.5	---	---		
28	1.5	1.0	3.0	2.0	5.0	3.0	8.5	6.5	---	---		
29	1.5	1.0	3.5	2.0	4.0	3.5	9.0	6.5	---	---		
30	1.0	1.0	3.0	1.5	3.5	3.5	10.0	8.0	---	---		
31	---	---	2.0	2.0	---	---	10.5	9.0	---	---		
MONTH	2.0	0.5	3.5	1.0	5.0	1.5	10.5	3.5	---	---		
YEAR	11.0	0.0										

15106960 HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°40'22", long 135°10'40", in SE¼SE¼ sec.27, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 1 mi (1.6 km) upstream from confluence with Kadashan River, and 9 mi (14 km) south of Tenakee.

DRAINAGE AREA.--8.00 mi² (20.72 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1966 to current year. Published as "above Kadashan River" prior to September 1969.

REVISED RECORDS.-- WRD Alaska 1972: 1971 (M).

GAGE.--Water-stage recorder and timber-concrete control. Altitude of gage is 180 ft (55 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--9 years, 44.1 ft³/s (1.249 m³/s), 74.86 in/yr (1,901 mm/yr), 31,950 acre-ft/yr (39.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft³/s (39.9 m³/s) Oct. 5, 1972, gage height, 4.78 ft (1.457 m), from rating curve extended above 240 ft³/s (6.8 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 5.29 ft (1.612 m) Mar. 13, 1972, backwater from ice; minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Jan. 20-29, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 16	0015	360	10.2	2.80	0.853	Sept. 15	0500	*1,290	36.5	*4.54	1.384

Minimum daily discharge, 7.9 ft³/s (0.224 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	25	12	24	50	9.6	12	255	100	88	20	21
2	54	27	12	22	54	9.5	12	210	115	76	19	16
3	68	34	11	20	44	9.4	13	290	77	72	19	19
4	94	32	11	18	40	9.2	14	240	70	75	19	16
5	62	27	11	16	36	9.2	15	160	60	77	20	18
6	38	26	12	15	30	9.3	14	140	71	70	22	20
7	28	22	13	13	28	9.5	13	160	77	70	23	18
8	25	20	14	12	26	9.9	14	105	83	68	30	41
9	21	18	13	11	25	10	17	180	88	58	40	70
10	19	18	12	10	23	11	25	195	93	53	58	32
11	20	29	10	9.9	22	11	40	160	90	52	69	23
12	39	29	9.7	9.6	21	12	36	120	86	52	100	20
13	50	23	9.4	9.3	20	13	37	105	78	48	80	83
14	39	19	9.3	9.2	19	15	43	105	90	47	60	118
15	75	17	9.2	11	18	20	33	100	100	47	37	440
16	164	14	9.3	52	17	94	23	93	98	46	37	60
17	60	13	15	50	16	85	24	83	92	39	20	43
18	79	13	230	46	15	56	30	74	84	34	15	32
19	93	12	70	40	14	46	44	68	77	32	13	30
20	62	12	45	35	13	22	32	65	70	32	14	26
21	45	12	40	40	13	34	27	80	65	33	13	25
22	68	13	41	43	12	78	23	90	72	33	11	39
23	45	13	60	36	11	54	50	95	80	31	11	28
24	46	18	160	34	11	30	64	72	77	28	10	41
25	43	34	114	33	11	20	52	80	69	27	8.0	79
26	34	26	81	35	10	18	59	92	63	30	8.2	128
27	28	18	101	40	10	18	73	85	58	34	8.7	125
28	25	15	54	41	9.9	17	110	75	64	35	8.8	140
29	23	14	39	39	9.8	16	160	70	73	29	7.9	51
30	28	13	32	52	---	15	220	80	96	24	12	42
31	28	---	28	54	---	14	---	90	---	22	15	---
TOTAL	1597	606	1287.9	880.0	628.7	784.6	1329	3817	2416	1462	828.6	1844
MEAN	51.5	20.2	41.5	28.4	21.7	25.3	44.3	123	80.5	47.2	26.7	61.5
MAX	164	34	230	54	54	94	220	290	115	88	100	440
MIN	19	12	9.2	9.2	9.8	9.2	12	65	58	22	7.9	16
CFSM	6.44	2.53	5.19	3.55	2.71	3.16	5.54	15.4	10.1	5.90	3.34	7.69
IN.	7.43	2.82	5.99	4.09	2.92	3.65	6.18	17.75	11.23	6.80	3.85	8.57
AC-FT	3170	1200	2550	1750	1250	1560	2640	7570	4790	2900	1640	3660

CAL YR 1975 TOTAL 13822.7 MEAN 37.9 MAX 282 MIN 5.0 CFSM 4.74 IN 64.27 AC-FT 27420
WTR YR 1976 TOTAL 17480.8 MEAN 47.8 MAX 440 MIN 7.9 CFSM 5.98 IN 81.28 AC-FT 34670

15106960 HOOK CREEK NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1966 to current year.

INSTRUMENTATION.--Temperature recorder since Aug. 7, 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 13.5°C Aug. 4, 1976; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 13.5°C Aug. 4; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV					
05...	1015	28	69	7.1	1.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	1.5	0.0	0.0	0.0	1.0	0.0			---	---
2	8.0	7.5	1.0	0.0	0.0	0.0	1.0	0.5			---	---
3	8.5	8.0	1.5	0.5	0.0	0.0	1.5	1.0			---	---
4	8.0	7.0	2.0	1.5	0.0	0.0	1.5	0.5			---	---
5	7.0	6.0	2.0	1.5	0.0	0.0	0.5	0.0			---	---
6	7.0	6.0	2.0	1.5	0.0	0.0	0.0	0.0			---	---
7	6.5	5.5	2.0	1.5	0.0	0.0	0.0	0.0			---	---
8	6.5	5.5	2.0	1.5	0.0	0.0	0.0	0.0			---	---
9	5.5	4.0	2.0	1.0	0.0	0.0	0.0	0.0			---	---
10	4.5	3.5	1.0	0.5	0.0	0.0	0.0	0.0			0.5	0.0
11	5.5	4.5	1.0	0.5	0.0	0.0	0.0	0.0			0.5	0.0
12	6.0	5.5	1.5	1.0	0.0	0.0	0.0	0.0			1.0	0.0
13	6.5	6.0	1.5	1.0	0.0	0.0	0.0	0.0			0.0	0.0
14	6.0	6.0	1.0	0.5	0.0	0.0	0.0	0.0			0.5	0.0
15	6.0	6.0	1.0	1.0	0.0	0.0	0.0	0.0			1.0	0.5
16	6.0	5.5	1.0	0.0	0.0	0.0	0.0	0.0			0.5	0.0
17	5.5	5.5	1.0	0.5	0.0	0.0	0.0	0.0			0.0	0.0
18	5.5	5.5	1.5	1.0	0.0	0.0	0.0	0.0			0.5	0.0
19	6.0	5.5	1.5	1.5	0.0	0.0	1.0	0.0			1.5	0.5
20	5.5	5.0	1.5	1.5	0.5	0.0	1.5	1.0			2.0	0.5
21	5.5	4.5	1.5	1.5	1.5	1.0	1.5	1.0			2.0	0.5
22	5.5	4.5	1.5	1.5	1.5	1.5	1.5	1.0			1.5	0.5
23	5.5	4.5	1.5	1.0	1.5	0.5	1.0	0.5			2.0	1.5
24	5.5	4.5	1.5	1.0	1.5	0.5	0.5	0.0			2.5	1.5
25	5.0	4.0	1.5	1.5	1.5	1.0	0.5	0.0			2.0	1.5
26	4.0	4.0	1.5	0.5	1.5	1.5	1.0	0.5			2.0	0.5
27	4.0	2.5	0.5	0.5	1.5	1.0	1.0	0.5			2.0	1.0
28	2.5	1.5	0.5	0.0	1.5	1.5	1.5	1.0			2.0	1.0
29	2.5	1.5	0.5	0.0	1.5	1.0	1.5	1.5			1.0	0.0
30	2.5	2.0	0.0	0.0	1.0	0.5	1.5	1.0			1.5	0.0
31	2.0	0.0	---	---	0.5	0.5	---	---			2.0	0.5
MONTH	8.5	0.0	2.0	0.0	1.5	0.0	1.5	0.0			---	---

15106960 HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.5	2.0	1.5	5.5	2.0	5.5	4.5	13.0	9.5	9.5	8.0
2	2.5	1.5	2.5	1.5	4.5	2.0	6.0	4.5	13.0	9.5	8.5	8.0
3	2.5	1.5	2.0	1.5	3.5	2.5	7.0	4.5	13.0	9.5	9.5	8.0
4	2.5	1.0	3.0	1.5	4.5	2.0	6.5	5.0	13.5	10.0	9.5	7.5
5	2.5	1.5	3.0	1.5	4.0	2.5	7.5	5.0	11.5	10.5	8.0	6.0
6	2.5	1.5	2.5	1.5	5.0	2.5	7.0	5.0	12.5	10.0	7.5	6.0
7	2.5	1.5	2.0	1.5	4.5	2.0	8.5	5.0	11.0	9.5	8.0	5.5
8	2.0	1.5	3.0	1.5	4.0	2.5	9.5	6.0	11.0	10.0	9.5	7.5
9	3.0	1.5	2.0	1.5	4.0	2.5	7.5	6.0	10.5	10.0	8.5	8.0
10	2.5	1.5	2.5	1.5	4.5	2.5	8.0	6.0	11.5	10.0	8.5	7.5
11	2.5	1.5	2.5	1.5	3.5	2.5	9.5	6.0	11.0	10.0	8.0	6.0
12	2.5	1.5	3.0	2.0	4.0	2.5	7.5	6.0	10.0	9.5	7.5	5.5
13	2.0	1.5	3.0	2.0	4.5	3.0	7.5	6.0	11.0	9.0	8.0	7.5
14	2.5	1.0	2.5	2.0	4.0	3.0	8.0	6.0	11.0	8.0	8.0	7.5
15	2.5	0.5	3.5	2.0	6.0	3.0	8.0	6.0	10.0	8.5	8.0	7.5
16	2.5	1.0	4.5	2.0	6.5	2.5	8.0	6.0	11.5	9.0	7.5	7.0
17	2.5	1.5	4.0	1.5	4.5	3.5	7.0	6.0	---	---	7.5	6.0
18	2.5	1.5	3.5	2.0	4.5	3.5	7.5	5.5	---	---	7.5	6.0
19	2.5	1.5	3.5	2.0	4.5	3.5	9.5	5.0	10.0	8.5	8.0	7.5
20	---	---	3.5	2.0	4.5	3.5	9.0	7.5	9.5	9.0	8.5	8.0
21	---	---	4.0	2.0	6.0	3.0	9.0	7.5	10.0	8.5	8.5	7.5
22	---	---	3.5	2.0	5.0	3.5	8.0	7.0	9.5	7.5	8.5	7.5
23	2.0	1.0	4.0	2.0	5.0	4.0	8.5	6.5	10.5	8.5	7.5	6.5
24	2.5	1.0	3.5	2.0	4.5	4.0	8.5	6.5	10.0	8.5	9.5	7.5
25	3.0	1.5	4.5	2.0	4.5	4.0	7.5	6.5	9.0	7.5	9.5	9.5
26	3.0	1.5	3.5	2.0	5.5	4.0	8.0	6.5	9.0	7.5	9.5	9.0
27	3.5	1.0	4.5	2.0	6.0	4.0	8.0	7.5	9.5	8.0	10.0	9.0
28	3.0	1.0	4.0	2.0	8.0	4.0	10.5	7.5	9.5	8.5	10.0	7.5
29	3.0	1.0	4.5	2.0	6.5	4.5	11.5	7.0	9.5	8.0	7.5	7.0
30	2.5	1.5	4.5	1.5	5.0	4.0	12.0	8.0	9.5	7.5	7.0	6.5
31	---	---	3.5	2.0	---	---	13.0	9.0	9.0	8.0	---	---
MONTH	3.5	0.5	4.5	1.5	8.0	2.0	13.0	4.5	13.5	7.5	10.0	5.5
YEAR	13.5	0.0										

15106980 TONALITE CREEK NEAR TENAKEE

LOCATION.--Lat 57°40'42", long 135°13'17", Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 2 mi (3.2 km) upstream from mouth at Kadashan River, and 9 mi (14 km) south of Tenakee.

DRAINAGE AREA.--14.5 mi² (37.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map. Prior to Mar. 23, 1970, at site 40 ft (12 m) upstream on left bank at datum 0.30 ft (0.091 m) higher.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 14 to Mar. 8 and June 7 to Aug. 8, which are poor.

AVERAGE DISCHARGE.--8 years, 95.3 ft³/s (2.699 m³/s), 89.25 in/yr (2,267 mm/yr), 69,040 acre-ft/yr (85.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) Oct. 5, 1972, gage height, 7.83 ft (2.387 m) in gage well, 7.96 ft (2.426 m) from floodmarks, from rating curve extended above 210 ft³/s (5.95 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 6.0 ft³/s (0.17 m³/s) Jan. 15-19, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) Sept. 15, gage height, 7.19 ft (2.192 m), from rating curve extended as explained above, only peak above base of 1,000 ft³/s (28 m³/s); minimum, 13 ft³/s (0.38 m³/s) Aug. 25, 26, gage height, 1.14 ft (0.347 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	48	24	40	100	24	24	437	210	190	40	33
2	127	54	23	41	96	24	24	374	258	160	37	25
3	156	76	23	38	90	24	27	491	226	120	34	36
4	152	74	22	36	80	24	36	371	168	130	31	29
5	98	61	23	33	72	24	39	262	172	140	29	23
6	69	45	24	31	64	25	39	250	192	130	26	22
7	56	37	26	29	58	25	32	318	191	120	24	20
8	49	33	29	27	54	26	32	210	200	140	26	49
9	43	30	27	24	50	27	33	312	210	160	30	100
10	39	29	24	22	46	28	61	392	210	180	36	56
11	34	75	21	21	42	26	88	348	230	95	50	37
12	62	68	20	19	40	25	76	270	200	90	150	29
13	162	42	19	19	38	26	80	230	170	88	120	53
14	100	33	19	21	36	32	115	204	200	84	50	174
15	102	29	19	30	34	40	72	220	210	84	30	985
16	180	23	20	65	32	54	56	202	200	88	26	178
17	118	20	25	90	30	226	55	194	190	84	24	90
18	125	19	350	85	29	140	67	178	170	80	23	56
19	206	19	300	76	27	70	94	150	150	65	25	52
20	176	19	120	75	26	42	76	138	130	54	27	37
21	100	20	90	82	25	39	74	166	120	58	29	39
22	262	21	84	82	25	112	68	210	130	60	22	60
23	122	25	120	76	24	88	86	198	150	56	23	40
24	130	134	110	68	24	58	135	168	150	50	21	44
25	98	103	130	70	23	48	120	196	140	45	19	106
26	68	63	91	74	23	42	140	214	130	56	17	266
27	55	41	65	78	23	42	150	200	130	64	25	300
28	46	34	51	80	23	39	196	168	140	74	30	312
29	42	30	47	76	23	32	282	155	160	56	30	100
30	68	26	51	95	---	27	338	162	170	50	24	76
31	62	---	43	105	---	25	---	186	---	45	22	---
TOTAL	3333	1331	2040	1708	1257	1494	2715	7574	5297	2896	1100	3427
MEAN	108	44.4	65.8	55.1	43.3	48.2	90.5	244	177	93.4	35.5	114
MAX	262	134	350	105	100	226	338	491	258	190	150	985
MIN	34	19	19	19	23	24	24	138	120	45	17	20
CFSM	7.45	3.06	4.54	3.80	2.99	3.32	6.24	16.8	12.2	6.44	2.45	7.86
IN.	8.55	3.41	5.23	4.38	3.22	3.83	6.96	19.43	13.59	7.43	2.82	8.79
AC-FT	6610	2640	4050	3390	2490	2960	5390	15020	10510	5740	2180	6800

CAL YR 1975 TOTAL 27320.0 MEAN 74.8 MAX 840 MIN 8.0 CFSM 5.16 IN 70.08 AC-FT 54190
WTR YR 1976 TOTAL 34172.0 MEAN 93.4 MAX 985 MIN 17 CFSM 6.44 IN 87.66 AC-FT 67780

15106980 TONALITE CREEK NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1968 to current year.

INSTRUMENTATION.--Temperature recorder since June 27, 1968.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 14.0°C Aug. 12, 1968; minimum, 0.0°C on many days during the winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 9.0°C Oct. 1; minimum, 0.0°C on many days during the winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT									
11...	1430	30	52	--	--	4.5	--	--	--
APR									
20...	1230	81	48	7.2	11.0	2.0	--	--	--
22...	1400	66	40	7.2	--	2.5	--	--	13.4
MAY									
04...	1030	359	26	--	--	2.0	--	1	--
10...	1230	350	26	7.3	--	2.0	--	--	--
AUG									
18...	1400	23	50	7.3	--	--	8	1	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT								
11...	--	--	--	--	--	--	--	--
APR								
20...	--	--	--	--	--	--	--	--
22...	.5	3.5	.12	.00	.00	.00	.12	.00
MAY								
04...	--	--	.10	.00	.15	.15	.25	.02
10...	--	--	.10	.02	.21	.23	.33	.02
AUG								
18...	.8	5.6	.54	.00	.50	.50	1.0	.03

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR						
22...	1400	10	290	10	.4	20
AUG						
18...	1400	<10	270	10	.1	0

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
APR			
22...	1400	4.7	3.0
MAY			
04...	1030	4.4	--
10...	1230	3.8	--
AUG			
18...	1400	1.6	.2

15106980 TONALITE CREEK NEAR TENAKEE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT										
03...	1215	140	8.5	1	2	.76	--	--	--	--
12...	2020	115	--	2	10	3.1	--	--	--	--
12...	2145	208	--	2	20	11	--	--	--	--
13...	1015	166	--	1	3	1.3	--	--	--	--
16...	0125	434	6.0	4	54	63	--	--	--	--
16...	0220	488	6.0	4	57	75	--	--	--	--
16...	0325	524	6.0	4	48	68	38	64	92	100
16...	1730	278	6.5	1	10	7.5	--	--	--	--
19...	1750	325	6.0	2	2	1.8	--	--	--	--
19...	1815	284	6.0	2	15	12	--	--	--	--
MAY										
04...	1030	359	2.0	1	7	6.8	--	--	--	--
AUG										
18...	1400	23	--	1	2	.13	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	1.5	0.5			---	---	1.5	0.5		
2	8.0	7.5	1.0	0.0			---	---	1.5	1.0		
3	8.5	8.0	1.5	0.5			---	---	1.5	1.0		
4	8.0	7.5	2.0	1.5			---	---	1.5	0.5		
5	7.5	6.5	1.5	1.0			---	---	1.5	1.0		
6	7.5	6.5	2.0	1.5			---	---	1.5	1.0		
7	7.0	6.0	2.0	1.5			---	---	1.0	0.5		
8	7.0	6.0	2.0	1.5			---	---	0.0	0.0		
9	5.5	4.5	2.0	1.0			---	---	0.0	0.0		
10	5.0	4.0	1.0	0.5			---	---	0.0	0.0		
11	6.0	4.5	1.0	0.0			---	---	1.0	0.5		
12	6.5	5.5	1.5	0.5			---	---	1.0	0.5		
13	6.5	6.0	1.5	1.0			---	---	1.5	1.0		
14	6.5	6.5	1.0	1.0			---	---	1.5	1.0		
15	6.5	6.0	1.5	1.0			---	---	1.0	0.0		
16	6.5	6.0	1.0	0.5			---	---	0.0	0.0		
17	6.0	5.5	1.5	0.5			0.0	0.0	0.0	0.0		
18	6.0	5.5	1.5	1.5			0.0	0.0	0.0	0.0		
19	6.0	5.5	1.5	1.5			0.0	0.0	0.0	0.0		
20	6.0	5.5	1.5	1.5			1.5	1.0	0.0	0.0		
21	5.0	4.5	2.0	1.5			1.5	1.0	0.0	0.0		
22	5.5	4.5	1.5	1.0			1.5	1.0	0.0	0.0		
23	5.5	4.5	1.5	1.0			1.0	0.5	---	---		
24	5.5	5.0	1.5	1.0			0.5	0.0	---	---		
25	5.0	4.0	1.5	1.0			0.0	0.0	---	---		
26	4.5	4.0	1.0	0.0			1.0	0.5	---	---		
27	4.0	2.5	0.0	0.0			1.0	0.5	---	---		
28	2.5	2.0	0.0	0.0			1.5	1.0	---	---		
29	2.5	2.0	---	---			1.5	1.0	---	---		
30	2.5	1.5	---	---			1.0	0.5	---	---		
31	2.0	0.5	---	---			1.5	1.0	---	---		
MONTH	9.0	0.5	2.0	0.0			---	---	---	---		

15106980 TONALITE CREEK NEAR TENAKEE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3.0	2.5	3.0	3.0						
2	---	---	3.0	2.5	3.0	2.0						
3	---	---	2.5	2.5	3.0	3.0						
4	---	---	3.0	2.5	3.0	3.0						
5	---	---	3.0	2.5	3.0	3.0						
6	---	---	3.0	2.5	3.0	3.0						
7	---	---	3.0	2.5	3.0	3.0						
8	---	---	3.0	2.5	3.0	3.0						
9	---	---	3.0	2.5	3.0	3.0						
10	---	---	3.0	2.5	---	---						
11	---	---	3.0	2.5	---	---						
12	---	---	3.0	2.5	---	---						
13	---	---	3.0	2.5	---	---						
14	---	---	3.0	2.5	---	---						
15	---	---	3.0	2.5	---	---						
16	---	---	3.0	2.5	---	---						
17	---	---	3.0	2.5	---	---						
18	---	---	3.0	3.0	---	---						
19	---	---	3.0	2.5	---	---						
20	---	---	3.0	2.5	---	---						
21	3.0	2.5	3.0	3.0	---	---						
22	3.0	2.5	3.0	3.0	---	---						
23	3.0	2.5	3.0	2.5	---	---						
24	3.0	2.5	3.0	3.0	---	---						
25	3.0	2.5	3.0	3.0	---	---						
26	3.0	2.5	3.0	3.0	---	---						
27	3.0	2.5	3.0	2.5	---	---						
28	3.0	2.5	3.0	2.5	---	---						
29	3.0	2.5	3.0	3.0	---	---						
30	3.0	2.5	3.0	2.5	---	---						
31	---	---	3.0	3.0	---	---						
MONTH	---	---	3.0	2.5	---	---						

15107000 KADASHAN RIVER NEAR TENAKEE

LOCATION.--Lat 57°41'43", long 135°12'59", in SE¼NW¼ sec. 21, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 700 ft (213 m) downstream from mouth of Tonalite Creek, 0.5 mi (0.8 km) upstream from mouth at Kadashan Bay in Tenakee Inlet, and 7 mi (11 km) south of Tenakee.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3 ft (0.9 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor. Most high tides cause backwater at the gage and are shown on the stage record.

AVERAGE DISCHARGE.--12 years, 233 ft^3/s (6.60 m^3/s), 83.93 in/yr (2,131 mm/yr), 168,800 acre-/yr (208 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,070 ft^3/s (172 m^3/s) Oct. 5, 1972, gage height, 10.41 ft (3.173 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s); minimum daily, 14 ft^3/s (0.40 m^3/s) Jan. 29 to Feb. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,810 ft^3/s (165 m^3/s) Sept. 15 (0530 hrs), gage height, 10.22 ft (3.115 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s), only peak above base of 2,600 ft^3/s (73.6 m^3/s); minimum daily, 46 ft^3/s (1.30 m^3/s) Jan. 13, Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	706	113	64	120	250	58	66	1080	351	508	108	127
2	281	145	60	105	240	58	73	950	490	278	98	82
3	337	205	58	95	220	58	85	1300	422	251	88	91
4	403	190	56	86	203	58	115	938	275	272	81	78
5	257	157	59	80	161	60	109	585	272	275	74	67
6	163	117	64	74	159	61	87	580	284	266	66	66
7	129	100	70	68	140	62	82	772	337	266	62	63
8	109	90	72	62	130	64	87	434	358	278	69	137
9	97	85	72	58	120	65	95	722	389	396	95	275
10	87	84	68	54	115	67	180	1020	400	245	125	131
11	82	207	56	50	105	68	224	855	540	200	160	90
12	140	178	52	47	100	70	205	635	365	198	300	79
13	369	111	50	46	96	73	203	495	326	183	380	191
14	239	93	49	52	91	78	337	407	462	180	460	423
15	248	87	50	100	85	137	185	422	522	175	120	2300
16	820	78	52	198	80	268	141	389	513	170	80	414
17	299	71	200	230	75	838	145	365	513	160	60	227
18	299	66	1100	221	73	591	183	319	379	140	64	153
19	490	62	600	195	70	351	290	260	344	125	69	137
20	410	60	300	190	67	173	213	242	302	135	75	121
21	236	60	200	205	64	100	163	309	263	145	79	107
22	467	62	190	195	62	319	149	400	319	150	66	157
23	251	62	210	180	60	230	183	372	347	130	67	107
24	266	68	250	170	60	147	299	293	347	115	66	157
25	215	130	410	160	59	107	257	354	326	120	46	403
26	149	120	210	180	59	102	302	389	269	140	60	827
27	123	100	440	200	58	103	330	372	257	175	78	827
28	103	90	250	195	58	87	410	293	281	180	82	607
29	97	80	170	200	58	79	662	260	351	150	78	257
30	165	69	140	240	---	75	822	269	340	130	66	205
31	159	---	135	250	---	66	---	319	---	115	72	---
TOTAL	8196	3140	5757	4306	3118	4673	6682	16400	10944	6251	3394	8906
MEAN	264	105	186	139	108	151	223	529	365	202	109	297
MAX	820	207	1100	250	250	838	822	1300	540	508	460	2300
MIN	82	60	49	46	58	58	66	242	257	115	46	63
CFSM	7.00	2.79	4.93	3.69	2.86	4.01	5.92	14.0	9.68	5.36	2.89	7.88
IN.	8.09	3.10	5.68	4.25	3.08	4.61	6.59	16.18	10.80	6.17	3.35	8.79
AC-FT	16260	6230	11420	8540	6180	9270	13250	32530	21710	12400	6730	17670

CAL YR 1975 TOTAL 71017 MEAN 195 MAX 1660 MIN 20 CFSM 5.17 IN 70.07 AC-FT 140900
WTR YR 1976 TOTAL 81767 MEAN 223 MAX 2300 MIN 46 CFSM 5.92 IN 80.68 AC-FT 162200

15107000 KADASHAN RIVER NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1966 to current year.

INSTRUMENTATION.--Temperature recorder since June 19, 1966.

REMARKS.--Interruptions in the temperature record were due to malfunction of the instrument. The period, Mar. 9 to Apr. 19, had a correction of 1.7°C applied on a prorated basis and is accurate only within that range.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 17°C Aug. 7, 1968; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum recorded, 12.0°C Aug. 24, 1976; minimum, 0.0°C on several days during the winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	1.5	1.0	0.5	0.0	0.0	0.0	1.5	1.0	0.0	0.0
2	8.5	8.5	1.5	0.5	0.5	0.0	0.0	0.0	1.5	1.0	0.0	0.0
3	9.0	8.5	1.5	1.0	0.5	0.0	0.5	0.0	1.5	1.5	0.0	0.0
4	9.0	8.5	2.0	1.5	0.5	0.5	0.5	0.0	1.5	1.0	0.0	0.0
5	8.5	7.0	2.0	1.5	0.5	0.5	0.0	0.0	1.0	1.0	0.0	0.0
6	8.0	7.0	2.0	1.5	0.5	0.5	0.0	0.0	1.0	0.5	0.0	0.0
7	8.0	6.5	2.0	1.5	0.5	0.5	0.0	0.0	1.0	0.5	0.0	0.0
8	8.0	6.5	1.5	1.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0
9	7.0	5.5	1.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	5.5	5.0	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	6.0	5.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	6.0	5.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	6.5	6.0	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
14	6.5	6.5	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
15	6.5	6.5	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
16	6.5	6.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
17	6.5	6.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.0	6.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	6.0	6.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	6.0	6.0	1.5	1.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
21	6.0	5.5	1.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
22	5.5	5.5	1.5	1.5	0.5	0.5	1.0	0.5	0.0	0.0	0.0	0.0
23	5.5	5.5	1.5	1.5	0.5	0.0	1.0	1.0	0.0	0.0	0.5	0.0
24	5.5	5.5	1.5	1.5	0.5	0.0	1.0	1.0	0.0	0.0	1.0	0.5
25	5.5	5.0	1.5	1.5	0.5	0.0	1.0	0.5	0.0	0.0	1.0	0.5
26	5.0	4.5	1.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	1.0	0.5
27	4.5	4.0	1.0	0.5	1.0	0.5	0.5	0.5	0.0	0.0	0.5	0.5
28	4.0	3.0	0.5	0.5	0.5	0.5	1.0	0.5	0.0	0.0	1.0	0.5
29	3.0	3.0	0.5	0.5	0.5	0.5	1.0	1.0	0.0	0.0	0.5	0.0
30	3.0	3.0	0.5	0.5	0.5	0.0	1.0	0.5	---	---	0.5	0.0
31	3.0	1.0	---	---	0.0	0.0	1.5	1.0	---	---	0.5	0.0
MONTH	9.0	1.0	2.0	0.5	1.0	0.0	1.5	0.0	1.5	0.0	1.0	0.0

15107000 KADASHAN RIVER NEAR TENAKEE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	1.5	1.5	5.0	3.0	5.0	4.5	---	---	10.5	10.0
2	0.5	0.0	1.5	1.5	4.0	2.0	5.5	4.5	---	---	10.5	10.0
3	0.5	0.5	1.5	1.0	4.0	3.0	6.5	5.0	---	---	10.5	9.5
4	0.5	0.0	1.5	1.5	3.5	3.0	6.5	5.0	---	---	10.0	9.5
5	0.5	0.5	1.5	1.5	3.5	3.0	6.5	5.0	---	---	10.0	9.0
6	1.0	0.5	1.5	1.5	4.0	3.0	6.5	5.0	---	---	9.5	8.0
7	1.0	0.5	1.5	1.5	4.0	3.0	7.0	5.5	---	---	9.5	8.0
8	1.0	0.5	1.5	1.5	4.0	3.0	8.0	6.0	---	---	10.0	9.5
9	1.5	0.5	1.5	1.5	4.0	3.0	8.0	6.0	---	---	10.0	9.5
10	1.5	0.5	1.5	1.5	4.0	3.0	6.5	6.0	---	---	10.0	9.5
11	1.0	0.5	1.5	1.5	4.0	3.0	8.5	5.5	---	---	9.5	9.0
12	1.0	0.5	2.0	1.5	3.5	3.0	8.0	6.0	---	---	9.0	8.0
13	1.0	0.5	2.0	1.5	4.5	3.0	6.5	6.0	---	---	9.0	8.5
14	1.0	0.5	2.0	1.5	4.5	3.0	7.0	6.0	---	---	9.0	9.0
15	1.5	0.0	2.0	1.5	5.5	3.0	7.0	6.5	---	---	9.0	9.0
16	0.5	0.0	3.5	1.5	5.5	3.0	---	---	---	---	9.0	9.0
17	1.0	0.5	3.0	1.5	5.0	3.5	---	---	---	---	9.0	8.5
18	1.0	0.5	3.0	2.0	4.0	3.5	---	---	10.5	10.0	8.5	8.5
19	0.5	0.0	3.0	2.0	4.0	3.5	---	---	10.5	10.0	9.0	8.5
20	0.5	0.0	3.0	2.0	4.0	3.5	---	---	10.5	10.0	9.5	9.0
21	0.5	0.0	3.0	2.0	5.5	3.5	---	---	11.5	10.0	9.5	9.0
22	1.0	0.0	3.0	2.0	5.0	4.0	---	---	11.0	10.0	9.5	9.0
23	0.5	0.0	3.5	2.0	4.5	4.0	---	---	11.5	10.5	9.0	8.5
24	0.5	0.0	3.0	2.0	4.5	4.0	---	---	12.0	10.5	9.5	9.0
25	1.0	0.5	4.0	2.0	4.0	4.0	---	---	11.5	10.0	10.0	9.5
26	1.5	0.5	3.5	2.0	5.0	4.0	---	---	10.5	10.0	10.0	10.0
27	1.5	0.0	4.0	2.0	5.5	4.0	---	---	11.0	10.0	10.0	10.0
28	1.5	0.5	3.5	2.0	6.5	4.0	---	---	11.0	10.0	10.0	9.5
29	1.5	0.5	3.5	2.0	6.5	5.0	---	---	10.5	10.0	9.5	8.5
30	1.5	1.0	3.5	2.0	5.5	4.5	---	---	10.5	9.5	8.5	8.5
31	---	---	3.5	3.0	---	---	---	---	10.5	---	---	---
MONTH	1.5	0.0	4.0	1.0	6.5	2.0	---	---	---	---	10.5	8.0

15108000 PAVLOF RIVER NEAR TENAKEE

LOCATION.--Lat 57°50'30", long 135°02'09", Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on left bank 250 ft (76 m) upstream from falls at outlet of Pavlof Lake, 0.1 mi (0.2 km) upstream from mouth at Pavlof Harbor, and 8 mi (13 km) northeast of Tenakee.

DRAINAGE AREA.--24.3 mi^2 (62.9 km^2).

PERIOD OF RECORD.--June 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Records good except those for Feb. 4 to Mar. 8, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--19 years, 162 ft^3/s (4.59 m^3/s), 90.53 in/yr (2,299 mm/yr), 117,400 acre-ft/yr (145 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft^3/s (84.1 m^3/s) Jan. 4, 1963, gage height, 8.37 ft (2.551 m), from rating curve extended above 1,200 ft^3/s (34 m^3/s; minimum, 6.8 ft^3/s (0.19 m^3/s) Jan. 16-18, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34 m^3/s) and maximum (*).

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Oct. 1	0015	1,270	36.0	6.50	1.981	Sept. 15	0600	*1,980	56.1	*7.35	2.240

Minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Mar. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	71	28	111	480	24	40	562	252	272	109	58
2	260	69	27	104	430	25	40	512	323	189	102	56
3	176	104	25	71	179	26	63	849	319	167	90	83
4	164	99	24	54	120	27	90	596	241	170	83	73
5	133	95	24	40	120	29	81	400	219	182	77	56
6	97	69	24	30	143	31	65	377	226	185	69	49
7	81	56	24	23	182	37	60	415	215	189	63	44
8	69	51	24	22	146	43	65	314	256	202	65	127
9	61	46	25	23	107	46	77	550	293	280	75	208
10	56	46	27	24	90	46	135	655	289	195	92	130
11	51	117	29	24	75	40	161	550	386	158	152	88
12	99	119	30	23	70	21	158	470	289	146	215	63
13	395	69	32	22	68	17	158	368	260	146	189	109
14	167	51	35	25	64	16	248	306	310	143	109	198
15	164	46	39	33	56	27	158	306	377	141	83	1330
16	425	37	60	45	45	49	117	272	363	155	71	345
17	205	36	97	69	39	176	109	260	336	135	63	185
18	188	38	306	319	34	176	132	241	327	117	60	127
19	222	41	496	707	31	124	233	208	293	97	75	132
20	195	37	470	368	28	71	179	189	248	99	90	130
21	141	37	179	470	26	56	127	212	219	104	81	102
22	167	36	124	264	25	127	127	256	237	102	65	164
23	130	36	161	170	24	138	132	248	256	97	60	107
24	147	195	496	122	23	99	248	212	256	88	56	97
25	136	158	440	119	23	71	195	233	241	86	49	222
26	97	102	244	135	23	63	219	248	208	104	46	550
27	79	61	358	430	23	67	226	248	195	104	53	649
28	67	42	198	272	23	58	289	212	205	135	60	607
29	61	34	127	173	23	51	420	198	241	109	56	256
30	99	30	114	573	---	48	501	205	237	109	49	202
31	102	---	114	415	---	43	---	233	---	109	46	---
TOTAL	5114	2028	4401	5280	2720	1872	4853	10905	8117	4515	2553	6547
MEAN	165	67.6	142	170	93.8	60.4	162	352	271	146	82.4	218
MAX	680	195	496	707	480	176	501	849	386	280	215	1330
MIN	51	30	24	22	23	16	40	189	195	86	46	44
CFSM	6.79	2.78	5.84	7.00	3.86	2.49	6.67	14.5	11.2	6.01	3.39	8.97
IN.	7.83	3.10	6.74	8.08	4.16	2.87	7.43	16.69	12.43	6.91	3.91	10.02
AC-FT	10140	4020	8730	10470	5400	3710	9630	21630	16100	8960	5060	12990

CAL YR 1975 TOTAL 44551 MEAN 122 MAX 850 MIN 13 CFSM 5.02 IN 68.20 AC-FT 88370
WTR YR 1976 TOTAL 58905 MEAN 161 MAX 1330 MIN 16 CFSM 6.63 IN 90.17 AC-FT 116800

15109000 FISH CREEK NEAR AUKE BAY

LOCATION.--Lat 58°19'50", long 134°35'20", City and Borough of Juneau, Hydrologic Unit 19060000, on Douglas Island, in North Tongass National Forest, on right bank 400 ft (120 m) upstream from bridge on North Douglas Highway, and 4.5 mi (7.2 km) southeast of Auke Bay.

DRAINAGE AREA.--13.6 mi^2 (35.2 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to current year.

REVISED RECORDS.--WRD Alaska 1972: 1971 (M).

GAGE.--Water-stage recorder. Altitude of gage is 17 ft (5.2 m), by levels from tide line.

REMARKS.--Records good except those for Nov. 27 to Jan. 15 and Feb. 2 to Mar. 6, which are poor.

AVERAGE DISCHARGE.--18 years, 78.5 ft^3/s (2.223 m^3/s), 78.38 in/yr (1,991 mm/yr), 56,870 acre-ft/yr (70.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) Oct. 2, 1961, gage height, 5.05 ft (1.539 m); maximum gage height, 7.54 ft (2.298 m) Jan. 30, 1962, ice jam; minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Feb. 4-7, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 974 ft^3/s (27.6 m^3/s) Sept. 15, gage height, 4.51 ft (1.375 m), only peak above base of 900 ft^3/s (25 m^3/s); minimum daily, 8.3 ft^3/s (0.23 m^3/s) Mar. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	21	12	25	250	10	10	218	101	267	55	25
2	78	20	12	21	170	10	10	248	164	134	46	20
3	73	19	11	20	120	10	12	319	180	109	39	39
4	55	19	11	19	90	10	16	257	123	117	42	47
5	42	21	10	18	70	10	16	195	97	139	38	27
6	32	18	10	18	56	11	15	177	97	143	31	24
7	28	15	10	17	47	14	16	177	125	127	32	21
8	24	15	9.8	17	38	18	18	125	132	148	44	111
9	21	14	9.6	16	32	15	18	153	151	231	84	274
10	19	14	9.4	16	28	11	44	316	123	139	62	95
11	18	22	9.2	16	24	10	62	215	169	109	95	43
12	31	32	9.2	16	21	9.9	49	136	127	95	117	31
13	167	19	9.0	16	19	8.8	43	117	148	146	62	32
14	84	15	9.0	16	17	8.3	54	101	143	125	37	103
15	68	14	9.0	16	16	8.8	36	99	143	134	29	500
16	192	14	10	24	15	62	26	83	172	111	26	109
17	76	14	38	139	14	161	24	84	203	88	22	76
18	55	12	90	143	14	78	26	81	227	59	22	46
19	83	11	240	182	13	39	41	67	175	61	48	39
20	91	11	155	95	13	21	39	64	134	71	55	37
21	65	11	100	148	12	17	30	86	125	86	44	29
22	101	10	64	67	12	15	27	93	136	73	30	83
23	61	9.9	46	41	12	15	23	109	167	62	28	38
24	101	12	51	39	11	15	28	78	161	55	23	31
25	54	16	111	39	11	14	52	103	134	56	21	55
26	37	16	121	49	11	14	68	107	119	44	18	411
27	29	15	79	123	10	15	73	111	113	84	25	359
28	22	14	83	71	10	14	103	90	125	73	39	291
29	21	13	51	44	10	14	159	81	143	58	42	91
30	22	13	37	200	---	12	187	86	167	62	26	88
31	24	---	30	230	---	11	---	101	---	59	22	---
TOTAL	2001	469.9	1456.2	1901	1166	681.8	1325	4277	4324	3265	1304	3175
MEAN	64.5	15.7	47.0	61.3	40.2	22.0	44.2	138	144	105	42.1	106
MAX	227	32	240	230	250	161	187	319	227	267	117	500
MIN	18	9.9	9.0	16	10	8.3	10	64	97	44	18	20
CFSM	4.74	1.15	3.46	4.51	2.96	1.62	3.25	10.1	10.6	7.72	3.10	7.79
IN.	5.47	1.29	3.98	5.20	3.19	1.86	3.62	11.70	11.83	8.93	3.57	8.68
AC-FT	3970	932	2890	3770	2310	1350	2630	8480	8580	6480	2590	6300

CAL YR 1975 TOTAL 28296.8 MEAN 77.5 MAX 498 MIN 4.0 CFSM 5.70 IN 77.39 AC-FT 56130
WTR YR 1976 TOTAL 25345.9 MEAN 69.3 MAX 500 MIN 8.3 CFSM 5.10 IN 69.32 AC-FT 50270

15109000 FISH CREEK NEAR AUKE BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-68, 1970-71, and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV							
24...	1445	14	61	7.4	--	1.0	--
MAR							
28...	1100	24	68	7.3	--	.0	14.6
30...	1130	12	55	7.4	--	.5	--
APR							
27...	1240	80	39	--	8.0	2.0	--
JUL							
26...	1115	55	--	7.0	--	7.0	--

15195000 DICK CREEK NEAR CORDOVA

LOCATION.--Lat 60°20'32", long 144°18'10", in NW¼ sec.2, T.18 S., R.6 E., Hydrologic Unit 19050003, Chugach National Forest, on left bank 1.2 mi (1.9 km) upstream from mouth at Bering Lake, and 52 mi (84 km) southeast of Cordova.

DRAINAGE AREA.--7.95 mi² (20.59 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Sept. 23, 1972 at site 100 ft (30 m) downstream at same datum.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--6 years, 112 ft³/s (3.172 m³/s), 191.32 in/yr (4,860 mm/yr), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft³/s (67.4 m³/s) Sept. 18, 1975, gage height, 8.95 ft (2.728 m), from rating curve extended above 940 ft³/s (27 m³/s) on basis of slope-conveyance study; minimum daily, 4.0 ft³/s (0.11 m³/s) Mar. 1-20, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,960 ft³/s (55.5 m³/s) Aug. 19, gage height, 8.56 ft (2.609 m), from rating curve extended as explained above; minimum daily, about 5.0 ft³/s (0.14 m³/s) Feb. 20 to Mar. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	15	12	23	81	5.0	20	168	317	205	164	46
2	130	14	11	19	47	5.0	30	188	269	215	136	40
3	102	13	11	16	33	5.0	27	386	218	175	112	80
4	79	13	9.0	15	27	5.0	24	670	168	154	106	89
5	56	12	9.0	14	25	5.0	17	630	170	154	104	52
6	49	12	9.0	13	37	5.0	14	567	203	156	90	40
7	34	12	9.0	12	46	27	12	499	235	188	173	56
8	30	12	9.0	11	36	17	12	213	203	193	215	850
9	27	9.0	9.0	11	30	13	126	251	175	198	164	413
10	28	9.0	9.0	11	27	11	220	665	208	188	119	116
11	310	9.0	9.0	11	26	11	64	382	248	162	154	126
12	505	9.0	8.0	10	20	11	40	251	238	148	117	104
13	429	9.0	8.0	9.0	12	9.0	55	185	203	148	94	129
14	422	9.0	8.0	9.0	11	9.0	50	180	200	136	87	720
15	344	9.0	8.0	9.0	10	9.0	35	260	213	117	74	410
16	188	9.0	128	15	8.0	12	39	142	292	130	64	286
17	136	9.0	111	24	6.0	30	27	132	560	134	62	577
18	83	20	37	68	6.0	85	26	134	293	119	442	950
19	61	93	247	46	6.0	41	40	150	225	142	910	638
20	49	61	107	102	5.0	25	37	294	188	152	154	391
21	65	33	45	321	5.0	17	31	223	164	150	99	175
22	40	56	136	81	5.0	15	27	162	183	146	76	218
23	240	34	160	37	5.0	14	28	230	205	158	64	104
24	186	31	90	27	5.0	13	31	203	235	134	55	239
25	76	25	185	21	5.0	13	40	190	225	126	44	151
26	50	19	101	47	5.0	13	254	178	205	138	47	94
27	36	16	56	74	5.0	11	390	203	220	173	199	146
28	29	15	41	57	5.0	11	188	243	215	185	230	426
29	25	14	32	106	5.0	11	152	223	248	154	117	167
30	19	13	25	170	---	11	160	183	205	166	73	310
31	16	---	23	68	---	9.0	---	275	---	173	55	---
TOTAL	4059	614.0	1662.0	1457.0	544.0	478.0	2216	8660	6931	4917	4600	8143
MEAN	131	20.5	53.6	47.0	18.8	15.4	73.9	279	231	159	148	271
MAX	505	93	247	321	81	85	390	670	560	215	910	950
MIN	16	9.0	8.0	9.0	5.0	5.0	12	132	164	117	44	40
CFSM	16.5	2.58	6.74	5.91	2.36	1.94	9.29	35.1	29.1	20.0	18.6	34.1
IN.	18.99	2.87	7.78	6.82	2.55	2.24	10.37	40.52	32.43	23.00	21.52	38.10
AC-FT	8050	1220	3300	2890	1080	948	4400	17180	13750	9750	9120	16150

CAL YR 1975 TOTAL 45794.0 MEAN 125 MAX 1000 MIN 7.0 CFSM 15.7 IN 214.25 AC-FT 90830
WTR YR 1976 TOTAL 44281.0 MEAN 121 MAX 950 MIN 5.0 CFSM 15.2 IN 207.17 AC-FT 87830

15195000 DICK CREEK NEAR CORDOVA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1971 to current year.

INSTRUMENTATION.--Temperature recorder since July 23, 1971.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 11.5°C Aug. 22, 1972; minimum, 0.0°C at times during winter period some years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 9.5°C Sept. 28; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 20...	1130	48	65	7.0	6.5	5.0	<5	1	11.7	.7
DEC 04...	1200	8.4	70	6.8	--	1.5	<5	<1	11.0	--
FEB 17...	1300	5.6	80	6.3	--	2.5	<5	<1	10.3	--
APR 06...	1300	14	75	6.8	--	2.0	5	<1	11.0	1.3
JUL 06...	1300	178	44	6.5	--	5.0	<5	<1	11.6	.7
AUG 23...	1435	65	60	6.4	--	7.5	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 20...	21	3.4	12	.05	.01	.13	.14	.19	.01
DEC 04...	24	6.1	--	.07	.02	.00	.00	.07	.00
FEB 17...	25	20	--	.18	.02	.12	.14	.32	.00
APR 06...	22	5.6	15	.10	.02	.12	.14	.24	.00
JUL 06...	15	7.6	9.0	.06	.00	.03	.03	.09	.01
AUG 23...	16	10	--	.04	.00	.00	.00	.04	.00

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 20...	1130	0	30	0	.0	20
APR 06...	1300	10	20	0	.0	10
JUL 06...	1300	<10	80	0	.0	18

15195000 DICK CREEK NEAR CORDOVA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT 20...	1130	.6	.0
DEC 04...	1200	2.8	--
FEB 17...	1300	1.0	--
APR 06...	1300	.7	.0
JUL 06...	1300	1.9	.0
AUG 23...	1435	.4	--

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT 20...	1130	48	6.5	5.0	1	1	.13
DEC 04...	1200	8.4	--	1.5	<1	2	.05
FEB 17...	1300	5.6	--	2.5	<1	2	.03
APR 06...	1300	14	--	2.0	<1	1	.04
JUL 06...	1300	178	--	5.0	<1	3	1.4
AUG 23...	1435	65	--	7.5	--	2	.35

15195000 DICK CREEK NEAR CORDOVA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	1.0	1.0	0.5	0.5	1.0	1.0	0.0	0.0	3.5	3.5
2	7.0	6.0	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.0	3.5	3.5
3	7.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.0	3.5	3.5
4	7.0	6.5	1.5	1.0	1.5	1.0	1.0	1.0	0.5	0.5	3.5	3.0
5	6.5	6.0	1.5	1.0	2.0	1.5	1.0	1.0	0.5	0.0	3.5	3.0
6	6.0	5.0	1.0	0.5	2.0	2.0	1.5	1.0	0.0	0.0	3.5	1.5
7	5.0	5.0	1.5	1.0	3.0	2.0	1.5	1.5	0.0	0.0	1.5	0.5
8	5.0	4.5	1.5	1.5	3.0	3.0	1.5	1.5	0.0	0.0	0.5	0.5
9	4.5	4.0	1.5	0.5	3.5	3.0	1.5	1.5	0.0	0.0	1.0	0.5
10	4.0	4.0	1.0	0.5	3.5	3.5	1.5	1.5	0.5	0.0	1.5	1.0
11	5.5	4.0	1.0	1.0	3.5	3.5	2.0	1.5	0.5	0.5	1.5	1.5
12	6.0	5.5	1.0	1.0	3.5	3.5	2.0	2.0	0.5	0.5	2.5	1.5
13	6.0	5.5	1.5	1.0	3.5	3.0	2.5	2.0	1.0	0.5	2.5	1.5
14	6.0	6.0	2.0	1.5	3.5	3.0	2.5	2.5	1.0	1.0	3.0	1.5
15	5.5	5.5	3.0	2.0	3.5	3.5	2.5	2.0	2.0	1.0	3.0	3.0
16	5.5	5.5	3.0	2.0	3.5	0.0	2.0	0.5	2.5	2.0	3.0	1.5
17	5.5	4.5	2.0	2.0	0.5	0.0	0.5	0.5	2.5	2.5	1.5	0.0
18	4.5	4.0	2.0	0.0	1.0	0.5	0.5	0.0	2.5	2.5	0.0	0.0
19	4.5	4.0	0.0	0.0	1.0	0.0	0.5	0.0	2.5	2.5	0.0	0.0
20	4.5	4.5	0.0	0.0	0.5	0.0	0.5	0.0	2.5	2.5	0.5	0.0
21	4.5	4.0	0.5	0.0	1.0	0.5	0.0	0.0	2.5	2.5	1.0	0.5
22	4.0	3.5	0.0	0.0	1.0	0.5	0.5	0.0	2.5	2.5	1.5	1.0
23	4.0	3.0	0.5	0.0	0.5	0.5	0.5	0.5	2.5	2.5	1.5	1.5
24	4.0	3.0	0.5	0.5	1.0	0.5	0.5	0.5	2.5	2.5	2.0	1.5
25	3.5	3.0	0.5	0.5	0.5	0.5	1.0	0.5	2.5	2.5	2.0	2.0
26	3.0	2.0	0.5	0.5	1.0	0.5	0.5	0.0	3.0	2.5	3.0	2.0
27	2.0	1.5	0.5	0.5	1.0	1.0	0.0	0.0	3.0	3.0	3.0	2.0
28	1.5	1.5	0.5	0.5	1.0	0.5	0.0	0.0	3.0	3.0	3.0	2.0
29	1.5	1.0	0.5	0.5	1.0	0.5	0.0	0.0	3.5	3.0	3.0	2.0
30	1.0	1.0	0.5	0.5	1.0	1.0	0.0	0.0	---	---	3.5	3.0
31	1.0	1.0	---	---	1.0	1.0	0.0	0.0	---	---	3.5	3.0
MONTH	8.0	1.0	3.0	0.0	3.5	0.0	2.5	0.0	3.5	0.0	3.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	0.5	0.5	0.5	3.0	1.0	2.0	2.0	7.0	4.5	6.0	5.5
2	0.5	0.5	0.5	0.5	3.0	1.0	2.5	2.0	5.5	4.5	6.0	5.5
3	0.5	0.5	1.0	0.0	1.0	1.0	3.0	2.0	7.0	4.5	6.5	5.5
4	1.0	0.5	0.0	0.0	1.0	1.0	3.0	2.0	7.0	5.0	6.5	6.0
5	1.5	1.0	0.0	0.0	2.0	1.0	4.0	2.0	6.0	5.0	6.0	4.5
6	1.5	1.0	0.0	0.0	1.0	1.0	6.0	2.0	5.0	5.0	5.5	5.5
7	1.0	1.0	0.5	0.0	1.0	1.0	5.5	2.0	5.5	5.0	6.0	5.5
8	1.5	1.0	1.0	0.0	1.0	1.0	5.5	2.0	5.0	4.5	8.0	6.0
9	1.5	0.0	1.0	0.0	1.0	1.0	4.5	2.5	5.5	4.5	8.0	5.5
10	0.0	0.0	0.5	0.0	3.5	1.0	3.0	3.0	5.5	4.5	5.5	4.5
11	0.0	0.0	0.5	0.5	3.5	1.0	3.0	2.5	5.0	5.0	4.5	4.5
12	0.5	0.0	1.0	0.5	1.0	1.0	4.0	3.0	5.5	5.0	5.0	4.5
13	0.5	0.5	1.0	0.5	1.0	1.0	6.5	3.0	6.5	5.0	6.5	5.0
14	0.5	0.5	1.0	0.5	4.0	1.0	4.0	3.0	6.0	5.5	8.5	6.5
15	0.5	0.5	1.0	1.0	3.0	1.0	4.5	3.0	5.5	5.0	7.0	6.0
16	1.0	0.5	1.5	1.0	1.5	0.5	3.5	3.0	5.5	5.0	6.0	6.0
17	1.5	1.0	2.0	1.0	3.0	1.0	3.0	2.5	5.5	5.0	7.0	6.0
18	1.5	1.0	1.5	1.0	1.5	1.0	5.0	3.0	8.5	5.5	8.0	6.0
19	1.0	1.0	1.0	1.0	2.0	1.0	6.0	3.0	8.5	6.0	7.0	6.5
20	1.0	1.0	1.0	0.5	1.0	1.0	6.5	3.0	6.5	5.5	8.5	7.0
21	1.0	1.0	1.0	0.5	1.5	1.0	4.0	3.5	6.5	6.0	8.5	7.0
22	1.5	1.0	2.0	1.0	4.0	1.0	5.0	3.5	8.0	6.0	8.5	7.0
23	1.5	1.0	1.5	1.0	4.0	1.0	4.0	3.5	8.0	6.0	7.0	6.0
24	1.5	1.0	1.5	1.0	4.5	1.5	6.0	3.0	6.0	5.5	9.0	6.0
25	1.5	1.0	1.0	1.0	2.0	1.5	6.5	3.0	6.0	5.0	8.5	8.0
26	1.0	0.5	1.5	1.0	4.5	1.5	4.5	4.0	5.0	5.0	8.0	7.0
27	0.5	0.0	1.0	1.0	2.5	2.0	4.5	4.0	8.0	5.0	9.0	6.0
28	1.0	0.0	1.0	1.0	4.5	2.0	5.5	4.0	7.0	6.5	9.5	7.0
29	1.0	0.0	1.0	1.0	4.5	2.0	7.0	4.0	6.5	6.0	7.0	6.0
30	1.0	0.5	3.5	1.0	2.5	2.0	8.0	4.5	6.5	5.0	6.0	5.5
31	---	---	2.0	1.0	---	---	8.0	4.5	6.5	5.5	---	---
MONTH	3.0	0.0	3.5	0.0	4.5	0.5	8.0	2.0	8.5	4.5	9.5	4.5
YEAR	9.5	0.0										

15200280 GULKANA RIVER AT SOURDOUGH

LOCATION.--Lat 62°31'15", long 145°31'51", in NE¼ sec.35, T.19 N., R.2 W., Hydrologic Unit 19050003, on left bank 0.3 mi (0.5 km) downstream from Sourdough Creek, and 0.8 mi (1.3 km) southwest of Sourdough.

DRAINAGE AREA.--1,770 mi^2 (4,580 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR AK-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,845.96 ft (562.649 m) above mean sea level (levels by Alyeska Engineering).

REMARKS.--Water-discharge records good except those for Oct. 17 to May 17, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,840 ft^3/s (250 m^3/s) May 16, 1973, gage height, 9.92 ft (3.024 m); maximum gage height, 16.03 ft (4.886 m) May 7, 1976, backwater from ice; minimum daily discharge, about 200 ft^3/s (5.66 m^3/s) Dec. 6, 1973 to Apr. 12, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,850 ft^3/s (109 m^3/s) May 27, gage height, 7.32 ft (2.231 m), but may have been more about May 7; maximum gage height, 16.03 ft (4.886 m) May 7, backwater from ice; minimum daily discharge, about 250 ft^3/s (7.1 m^3/s) Nov. 16 to Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	400	250	250	250	250	250	700	2630	729	462	652
2	1650	350	250	250	250	250	250	1000	2610	722	432	645
3	1690	350	250	250	250	250	250	1500	2620	722	432	638
4	1670	350	250	250	250	250	250	2000	2590	701	444	617
5	1670	350	250	250	250	250	250	3000	2590	694	450	596
6	1650	350	250	250	250	250	250	3500	2590	680	456	582
7	1550	300	250	250	250	250	250	3600	2570	673	444	561
8	1470	300	250	250	250	250	250	3400	2750	638	450	568
9	1300	300	250	250	250	250	250	3200	3090	617	468	582
10	1200	300	250	250	250	250	250	3000	3010	617	492	617
11	1290	300	250	250	250	250	250	3200	2950	620	504	631
12	1320	300	250	250	250	250	250	3000	2740	620	638	631
13	1330	300	250	250	250	250	250	3000	2430	640	982	624
14	1360	300	250	250	250	250	250	3000	2170	640	1140	624
15	1270	300	250	250	250	250	250	3400	1950	660	1060	624
16	1250	250	250	250	250	250	250	3200	1780	666	1020	624
17	1200	250	250	250	250	250	250	3000	1640	708	1190	617
18	1100	250	250	250	250	250	280	2750	1510	701	1530	603
19	950	250	250	250	250	250	280	2610	1390	758	1540	624
20	850	250	250	250	250	250	280	2560	1300	758	1640	708
21	800	250	250	250	250	250	280	2410	1230	687	1590	687
22	750	250	250	250	250	250	280	2470	1190	617	1410	902
23	700	250	250	250	250	250	280	2600	1160	575	1230	878
24	650	250	250	250	250	250	300	2590	1110	547	1090	838
25	600	250	250	250	250	250	300	2880	1050	534	982	806
26	550	250	250	250	250	250	300	3640	982	534	886	774
27	500	250	250	250	250	250	300	3840	918	547	814	743
28	450	250	250	250	250	250	350	3570	854	568	743	722
29	450	250	250	250	250	250	400	3200	798	568	708	687
30	400	250	250	250	---	250	500	3030	758	522	673	659
31	400	---	250	250	---	250	---	2780	---	492	659	---
TOTAL	33580	8600	7750	7750	7250	7750	8380	87630	56960	19755	26559	20064
MEAN	1083	287	250	250	250	250	279	2827	1899	637	857	669
MAX	1690	400	250	250	250	250	500	3840	3090	758	1640	902
MIN	400	250	250	250	250	250	250	700	758	492	432	561
CFSM	.61	.16	.14	.14	.14	.14	.16	1.60	1.07	.36	.48	.38
IN.	.71	.18	.16	.16	.15	.16	.18	1.84	1.20	.42	.56	.42
AC-FT	66610	17060	15370	15370	14380	15370	16620	173800	113000	39180	52680	39800

CAL YR 1975 TOTAL 483750 MEAN 1325 MAX 8040 MIN 240 CFSM .75 IN 10.17 AC-FT 959500
WTR YR 1976 TOTAL 292028 MEAN 798 MAX 3840 MIN 250 CFSM .45 IN 6.14 AC-FT 579200

NOTE.--No gage-height record Nov. 4 to April 21.

15200280 GULKANA RIVER AT SOURDOUGH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since Oct. 1, 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 22.5°C July 9, 11, 1976; minimum, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.5°C July 9, 11; minimum, 0.0°C on most days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 05...	1200	1690	120	--	4.0	60	2	12.0	--	--	.00
JAN 23...	1100	237	208	7.6	.0	10	1	8.6	110	4.4	.14
APR 21...	1845	273	240	7.7	.0	--	--	--	113	3.6	.04
MAY 28...	0930	3560	82	--	3.5	--	--	12.0	--	--	.06
JUL 15...	1230	652	180	8.2	15.0	20	1	10.3	85	.9	.00
AUG 26...	1100	888	145	--	10.5	40	1	10.6	--	--	.03
SEP 28...	1300	688	150	8.0	4.0	25	1	12.1	88	1.4	.07

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT 05...	.01	.01	.01	1.3	1.3	1.3	1.3	1.3	.02	.01
JAN 23...	.12	.05	.05	.25	.35	.30	.40	.44	.03	.02
APR 21...	.03	.10	.04	.50	.51	.60	.55	.64	.02	.00
MAY 28...	.01	.04	.05	.44	.45	.48	.50	.54	.11	.05
JUL 15...	.00	.00	.00	.17	.20	.17	.20	.17	.02	.01
AUG 26...	.01	.00	.01	.14	.14	.14	.15	.17	.02	.00
SEP 28...	.00	.00	.01	.26	.34	.26	.35	.33	.01	.01

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
OCT 05...	1200	--	14	.2
JAN 23...	1100	--	11	.1
APR 21...	1845	--	4.2	.3
MAY 28...	0930	--	12	<.2
JUL 15...	1230	--	4.4	--
AUG 26...	1100	--	10	.7
SEP 28...	1300	6.5	--	--

15200280 GULKANA RIVER AT SOURDOUGH--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAY)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
OCT 5	30		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
			.CHLOROPHYCEAE		
			..CHLOROCOCCALES		
			...OOCYSTACEAE		
		O	....ANKISTRODESMUS		
			..ULOTRICHALES		
			...CHAETOPHORACEAE		
		O	....STIGEOCLONIUM		
			...MICROSPORACEAE		
		O	....MICROSPORA		
			..ZYGNEMATALES		
			...DESMIDIACEAE	PLACODERM DESMIDS	
		O	....CLOSTERIUM		
			CHRYSOPHYTA		
			.BACILLARIOPHYCEAE	DIATOMS	
			..CENTRALES	CENTRIC	
			...COSCINODISCACEAE		
		O	....MELOSIRA		
			..PENNALES	PENNATE	
			...ACHNANTHACEAE		
		O	....COCCONEIS		
			...CYMBELLACEAE		
		O	....CYMBELLA		
		O	....EPITHEMIA		
			...DIATOMACEAE		
		E	....DIATOMA		
			...FRAGILARIACEAE		
		O	....FRAGILARIA		
		O	....SYNEDRA		
			...GOMPHONEMATACEAE		
		E	....GOMPHONEMA		
			...NAVICULACEAE	NAVICULOID	
		E	....NAVICULA		
			...TABELLARIACEAE		
		O	....TABELLARIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT									
05...	1200	1690	4.0	2	13	59	--	--	--
JAN									
23...	1100	237	.0	1	1	.64	--	--	--
MAY									
28...	0930	3560	3.5	--	137	1320	27	33	46
JUL									
15...	1230	652	15.0	1	3	5.3	--	--	--
AUG									
26...	1100	888	10.5	1	4	9.6	--	--	--
SEP									
28...	1300	688	4.0	1	1	1.9	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 05...	--	--	46	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--	--
MAY 28...	59	69	77	81	88	97	99	100
JUL 15...	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--
SEP 28...	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	0.0	0.0	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

15200280 GULKANA RIVER AT SOURDOUGH--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	0.0	0.0	10.5	6.0	17.0	14.5	22.0	16.5	11.5	9.0
2	0.0	0.0	1.0	0.0	11.5	7.5	16.5	13.5	21.0	16.5	9.5	7.5
3	0.0	0.0	1.0	0.0	11.0	8.0	16.5	13.5	21.0	16.0	8.5	7.0
4	0.0	0.0	1.0	0.0	10.5	9.0	15.5	12.0	21.5	16.5	9.0	7.5
5	0.0	0.0	1.0	0.0	11.5	8.5	13.5	11.5	19.0	16.0	10.0	7.0
6	0.0	0.0	1.0	0.0	11.0	8.5	16.5	10.5	17.5	14.0	9.0	5.5
7	0.0	0.0	1.0	0.0	8.5	8.0	19.5	13.0	17.0	15.0	7.0	5.5
8	0.0	0.0	1.5	1.0	9.5	7.5	21.0	12.0	16.5	13.5	6.5	5.5
9	0.0	0.0	1.5	1.0	9.0	7.0	22.5	13.0	15.5	13.0	8.0	6.0
10	0.0	0.0	1.5	0.5	11.5	8.0	22.0	8.0	15.5	12.5	7.0	6.0
11	0.0	0.0	1.5	0.0	12.5	9.0	22.5	13.5	16.5	13.0	7.0	6.5
12	0.0	0.0	1.0	0.0	12.5	9.5	19.0	14.5	13.5	12.0	7.0	5.5
13	0.0	0.0	1.5	0.5	14.5	10.5	17.5	15.5	15.5	12.0	6.5	5.5
14	0.0	0.0	1.0	0.5	15.5	11.0	17.5	13.5	14.5	12.0	6.5	5.5
15	0.0	0.0	1.0	0.5	16.0	12.0	17.5	14.0	13.0	12.0	6.5	5.0
16	0.0	0.0	1.0	0.0	15.5	12.0	16.5	14.0	12.5	12.0	7.0	4.5
17	0.0	0.0	2.0	0.0	14.0	11.0	15.0	13.5	12.5	11.5	6.0	5.0
18	0.0	0.0	3.5	2.0	13.5	10.5	17.0	13.0	12.0	11.0	5.0	3.5
19	0.0	0.0	3.5	2.0	13.5	10.0	17.0	14.0	11.5	10.5	5.5	4.5
20	0.0	0.0	3.0	2.5	14.5	11.5	17.0	14.0	12.0	10.0	6.0	5.5
21	0.0	0.0	4.0	2.0	15.5	12.0	17.0	13.0	12.0	9.5	6.5	5.5
22	0.0	0.0	5.0	3.0	14.0	11.5	17.0	14.0	12.5	10.0	6.5	6.0
23	0.0	0.0	5.0	3.0	14.5	11.0	16.0	13.5	12.5	10.0	6.0	4.0
24	0.0	0.0	4.5	2.0	17.0	12.0	15.0	12.0	12.5	10.0	4.5	3.5
25	0.0	0.0	4.5	2.5	18.0	13.5	15.5	13.5	12.5	9.5	4.0	3.0
26	0.0	0.0	4.0	3.0	19.0	14.5	15.5	13.5	11.5	9.5	4.5	3.5
27	0.0	0.0	4.5	3.0	19.0	15.5	15.5	11.5	11.0	9.0	4.0	2.5
28	0.0	0.0	5.5	3.5	19.5	16.0	15.5	12.5	11.0	8.5	4.5	3.5
29	0.0	0.0	6.0	4.0	19.0	16.5	18.0	13.0	11.5	8.0	3.5	2.5
30	0.0	0.0	6.5	4.5	19.0	16.0	19.5	15.0	11.5	8.0	2.5	1.5
31	---	---	9.5	5.0	---	---	20.5	15.0	11.5	9.0	---	---
MONTH	0.0	0.0	9.5	0.0	19.5	6.0	22.5	8.0	22.0	8.0	11.5	1.5
YEAR	22.5	0.0										

15207800 LITTLE TONSINA RIVER NEAR TONSINA

LOCATION.--Lat 61°28'49", long 145°09'05", in NW¼ sec.36, T.4 S., R.1 E., Hydrologic Unit 19050003, on right bank 50 ft (15 m) downstream from Richardson Highway crossing, and 15.4 mi (24.8 km) south of Tonsina.

DRAINAGE AREA.--22.7 mi^2 (58.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1972 to current year.

REVISED RECORDS.--WRD AK-75-1: 1973, 1974.

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m), from topographic map.

REMARKS.--Water-discharge records good except those for Oct. 26 to May 5, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127 ft^3/s (3.60 m^3/s) July 1, 1975, gage height, 7.33 ft (2.234 m); minimum daily, about 3 ft^3/s (0.085 m^3/s) Mar. 6 to Apr. 26, 1974 and Jan. 6-10, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft^3/s (3.34 m^3/s) June 3, gage height, 6.97 ft (2.124 m); minimum daily, about 6.0 ft^3/s (0.17 m^3/s) Mar. 11 to Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	12	8.0	8.0	8.0	7.0	6.0	75	98	103	56	27
2	37	12	8.0	8.0	8.0	7.0	6.0	75	110	91	58	25
3	35	12	8.0	8.0	8.0	7.0	6.0	70	112	77	56	25
4	33	10	8.0	8.0	8.0	7.0	6.0	70	106	68	51	25
5	32	10	8.0	8.0	8.0	7.0	6.0	70	102	62	52	23
6	30	10	8.0	8.0	8.0	7.0	6.0	69	98	60	51	22
7	29	10	8.0	7.0	8.0	7.0	6.0	68	88	65	51	23
8	28	10	8.0	7.0	8.0	7.0	6.0	67	105	69	51	28
9	27	10	8.0	7.0	7.0	7.0	6.0	60	107	78	45	27
10	28	9.0	8.0	7.0	7.0	7.0	6.0	68	107	76	42	26
11	27	9.0	8.0	7.0	7.0	6.0	6.0	73	112	74	42	25
12	28	9.0	8.0	7.0	7.0	6.0	6.0	76	115	66	79	23
13	28	9.0	8.0	7.0	7.0	6.0	6.0	71	112	65	78	22
14	28	9.0	8.0	7.0	7.0	6.0	6.0	59	112	58	59	23
15	27	9.0	8.0	7.0	7.0	6.0	6.0	58	111	50	49	36
16	26	9.0	9.0	8.0	7.0	6.0	6.0	60	105	52	43	42
17	25	9.0	9.0	8.0	7.0	6.0	6.0	65	100	63	40	32
18	24	9.0	9.0	8.0	7.0	6.0	6.0	71	86	55	40	32
19	24	9.0	9.0	8.0	7.0	6.0	6.0	62	68	54	55	48
20	23	9.0	9.0	8.0	7.0	6.0	6.0	56	73	52	60	77
21	23	9.0	9.0	8.0	7.0	6.0	6.0	56	79	56	52	96
22	22	9.0	9.0	8.0	7.0	6.0	6.0	62	80	53	44	80
23	22	9.0	9.0	8.0	7.0	6.0	6.0	71	71	52	42	60
24	23	9.0	9.0	8.0	7.0	6.0	7.0	65	71	47	40	48
25	22	9.0	9.0	8.0	7.0	6.0	9.0	62	87	44	37	46
26	20	9.0	9.0	8.0	7.0	6.0	30	69	100	43	36	45
27	18	9.0	9.0	8.0	7.0	6.0	60	92	108	44	34	42
28	16	9.0	9.0	8.0	7.0	6.0	80	102	108	42	31	40
29	16	9.0	9.0	8.0	7.0	6.0	80	87	110	44	29	37
30	14	9.0	9.0	8.0	---	6.0	75	77	110	54	28	36
31	14	---	9.0	8.0	---	6.0	---	82	---	50	27	---
TOTAL	789	285.0	264.0	239.0	211.0	196.0	479.0	2168	2951	1867	1458	1141
MEAN	25.5	9.50	8.52	7.71	7.28	6.32	16.0	69.9	98.4	60.2	47.0	38.0
MAX	40	12	9.0	8.0	8.0	7.0	80	102	115	103	79	96
MIN	14	9.0	8.0	7.0	7.0	6.0	6.0	56	68	42	27	22
CFSM	1.12	.42	.38	.34	.32	.28	.70	3.08	4.33	2.65	2.07	1.67
IN.	1.29	.47	.43	.39	.35	.32	.78	3.55	4.84	3.06	2.39	1.87
AC-FT	1560	565	524	474	419	389	950	4300	5850	3700	2890	2260

CAL YR 1975 TOTAL 11959.0 MEAN 32.8 MAX 127 MIN 3.0 CFSM 1.44 IN 19.60 AC-FT 23720
WTR YR 1976 TOTAL 12048.0 MEAN 32.9 MAX 115 MIN 6.0 CFSM 1.45 IN 19.74 AC-FT 23900

NOTE.--No gage-height record Oct. 31 to May 5.

15207800 LITTLE TONSINA RIVER NEAR TONSINA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since Oct. 1, 1972.

REMARKS.--Recorder shut down for winter period Dec. 2 to May 5.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 12.0°C July 17, 18, 28 and Aug. 16-18, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 11.0°C Aug. 1, 2; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 04...	1300	33	105	7.3	3.0	--	1	12.0	52	4.2	.04
DEC 03...	1430	8.2	108	--	.5	--	1	11.6	--	--	.09
JAN 22...	1430	7.7	120	7.4	.0	0	1	10.9	71	4.5	.15
APR 22...	1245	5.7	150	7.3	1.0	--	--	12.1	82	6.6	.13
MAY 28...	2045	97	65	--	5.0	--	--	11.0	--	--	.25
JUL 14...	1300	62	55	7.1	7.0	--	--	10.7	29	3.7	--
AUG 25...	1100	42	70	7.3	7.0	10	4	11.5	38	3.0	.03
SEP 29...	1600	35	95	7.4	3.0	30	2	11.7	49	3.1	.11

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT 04...	.05	.00	.01	.25	.24	.25	.25	.29	.01	.01
DEC 03...	.09	.02	.03	.22	.04	.24	.07	.33	.00	.00
JAN 22...	.14	.02	.01	.18	.21	.20	.22	.35	.00	.00
APR 22...	.13	.03	.00	.00	.00	.00	.00	.13	.02	.00
MAY 28...	.20	.03	.04	.77	.54	.80	.58	1.1	.11	.09
JUL 14...	.00	.00	.00	.21	.23	.21	.23	--	.01	.00
AUG 25...	.02	.00	.01	.12	.09	.12	.10	.15	.00	.00
SEP 29...	.00	.00	.00	.21	.22	.21	.22	.32	.02	.02

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT			
04...	1300	6.9	.1
JAN			
22...	1430	7.1	.2
APR			
22...	1245	3.7	.3
MAY			
28...	2045	16	.5
JUL			
14...	1300	1.2	.1
AUG			
25...	1100	2.7	.7
SEP			
29...	1600	4.1	--

QUALITIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
OCT 4	31		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
			.CHLOROPHYCEAE		
			..OEDOGONIALES		
			...OEDOGONIACEAE		
		O	....OEDOGONIUM		
			..ULOTRICHALES		
			...CHAETOPHORACEAE		
		F	....STIGEOCLONIUM		
			...ULOTRICHACEAE		
		O	....ULOTHRIX		
			CHRYSOPHYTA		
			.BACILLARIOPHYCEAE	DIATOMS	
			..PENNALES	PENNATE	
			...FRAGILARIACEAE		
		O	....H.ARCUS		
			...ACHNANTHACEAE		
		O	....ACHNANTHES		
		O	....COCCONEIS		
			...CYMBELLACEAE		
		O	....AMPHORA		
		O	....CYMBELLA		
			...DIATOMACEAE		
		O	....DIATOMA		
			...EUNOTIACEAE		
		O	....EUNOTIA		
			...FRAGILARIACEAE		
		O	....FRAGILARIA		
		O	....SYNEDRA		
			...GOMPHONEMATACEAE		
		O	....GOMPHONEMA		
			...MERIDIONACEAE		
		F	....MERIDION		
			...NAVICULACEAE	NAVICULOID	
		O	....CALONEIS		
		O	....NAVICULA		
		O	....PINNULARIA		
		O	....STAURONEIS		
			...NITZSCHIACEAE		
		O	....NITZSCHIA		
			...SURIRELLACEAE		
		O	....SURIRELLA		
			...TABELLARIACEAE		
		O	....TABELLARIA		
			.XANTHOPHYCEAE	YELLOW-GREEN ALGAE	
			..HETEROTRICHALES		
			...TRIBONEMATACEAE		
		O	....TRIBONEMA		

NOTE: F - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

15207800 LITTLE TONSINA RIVER NEAR TONSINA--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT										
04...	1300	33	3.0	1	4	.36	--	--	--	--
DEC										
03...	1430	8.2	.5	1	2	.04	--	--	--	--
JAN										
22...	1430	7.7	.0	1	3	.06	--	--	--	--
MAY										
28...	2045	97	5.0	--	73	19	88	92	99	100
JUL										
14...	1300	62	7.0	--	13	2.2	--	--	--	--
AUG										
25...	1100	42	7.0	4	9	1.0	--	--	--	--
SEP										
29...	1600	35	3.0	2	8	.76	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	3.5	0.0	0.0	0.0	0.0						
2	3.5	3.5	0.0	0.0	---	---						
3	3.5	3.5	0.0	0.0	---	---						
4	4.0	3.5	0.0	0.0	---	---						
5	4.0	3.5	0.0	0.0	---	---						
6	3.5	3.5	0.0	0.0	---	---						
7	3.5	2.5	0.0	0.0	---	---						
8	2.5	2.0	0.0	0.0	---	---						
9	2.0	1.5	0.0	0.0	---	---						
10	1.5	1.0	0.0	0.0	---	---						
11	1.5	1.0	0.0	0.0	---	---						
12	2.0	1.5	0.0	0.0	---	---						
13	2.0	2.0	0.0	0.0	---	---						
14	2.5	2.0	0.0	0.0	---	---						
15	2.5	2.5	0.0	0.0	---	---						
16	2.5	2.0	0.0	0.0	---	---						
17	2.0	1.5	0.0	0.0	---	---						
18	1.5	0.5	0.0	0.0	---	---						
19	0.5	0.5	0.0	0.0	---	---						
20	0.5	0.5	0.0	0.0	---	---						
21	0.5	0.5	0.0	0.0	---	---						
22	0.5	0.5	0.0	0.0	---	---						
23	0.5	0.5	0.0	0.0	---	---						
24	0.5	0.5	0.0	0.0	---	---						
25	0.5	0.0	0.0	0.0	---	---						
26	0.0	0.0	0.0	0.0	---	---						
27	0.0	0.0	0.0	0.0	---	---						
28	0.0	0.0	0.0	0.0	---	---						
29	0.0	0.0	0.0	0.0	---	---						
30	0.0	0.0	0.0	0.0	---	---						
31	0.0	0.0	---	---	---	---						
MONTH	4.0	0.0	0.0	0.0	---	---						

15207800 LITTLE TONSINA RIVER NEAR TONSINA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	7.0	3.5	8.5	7.5	11.0	8.5	7.0	5.5
2			---	---	7.0	4.0	8.5	6.5	11.0	9.0	6.5	5.5
3			---	---	7.0	4.5	8.5	6.5	10.0	8.0	6.0	5.5
4			---	---	7.5	5.0	8.0	6.5	10.5	8.0	6.0	5.0
5			---	---	7.0	5.0	7.5	6.5	10.5	8.5	6.5	6.0
6			1.0	1.0	7.5	5.5	9.0	6.5	10.0	8.0	6.5	5.0
7			1.0	1.0	6.5	5.0	9.0	7.5	9.0	8.0	5.5	5.0
8			1.0	1.0	7.0	6.0	9.5	7.0	9.0	8.0	6.0	5.5
9			1.5	1.0	8.0	6.0	9.5	7.0	8.5	7.5	6.0	5.5
10			1.5	1.0	9.0	7.0	9.5	7.5	8.5	7.5	6.5	5.5
11			1.5	1.0	9.5	7.0	9.5	8.0	8.5	8.0	6.5	5.5
12			1.5	1.0	9.5	7.0	8.0	7.0	8.0	7.0	6.5	5.5
13			2.0	1.5	8.5	6.5	9.0	6.5	8.5	7.5	6.0	5.5
14			2.0	1.5	8.5	6.5	9.0	7.0	9.0	7.5	5.5	5.5
15			2.5	2.0	8.5	6.5	8.0	6.5	9.0	7.5	5.5	5.0
16			2.5	2.0	8.5	7.0	8.0	6.5	9.0	7.5	5.5	4.5
17			3.5	2.0	8.0	6.5	7.0	5.5	9.0	7.5	5.5	5.0
18			3.5	2.0	8.0	6.5	7.5	6.0	8.5	7.5	5.0	5.0
19			3.0	2.5	8.0	6.5	9.0	6.0	8.0	7.0	5.5	5.0
20			3.5	2.5	8.0	6.5	9.5	6.5	8.5	7.5	5.5	5.0
21			4.5	2.5	8.0	6.5	9.0	7.0	8.5	7.0	6.5	5.5
22			5.0	3.0	8.0	6.5	9.0	7.0	9.0	7.0	6.5	5.5
23			5.0	3.0	8.0	6.5	7.5	6.5	9.0	7.0	5.5	5.0
24			5.5	2.5	10.0	6.5	8.0	6.0	9.0	7.5	5.0	4.5
25			5.5	3.5	10.0	7.0	8.0	6.5	9.0	7.0	4.5	4.0
26			5.5	4.0	10.0	7.0	9.0	7.0	8.5	6.5	5.0	4.5
27			4.5	3.5	9.5	7.5	9.0	7.0	7.0	6.5	5.0	4.0
28			5.0	3.5	9.5	7.5	7.5	6.5	8.0	6.0	4.0	4.0
29			5.0	3.5	9.5	7.5	9.5	7.0	8.0	6.0	4.0	3.5
30			6.0	3.5	9.0	7.0	10.5	8.5	7.5	6.5	4.0	3.0
31			6.5	3.5	---	---	10.5	8.5	7.5	6.0	---	---
MONTH			6.5	1.0	10.0	3.5	10.5	5.5	11.0	6.0	7.0	3.0
YEAR	11.0	0.0										

15208000 TONSINA RIVER AT TONSINA

LOCATION.--Lat 61°39'41", long 145°11'02", in SW¼SW¼ sec.26, T.2 S., R.1 E., Hydrologic Unit 19050003, on right bank 0.2 mi (0.3 km) upstream from Richardson Highway crossing at Tonsina, 0.6 mi (1.0 km) upstream from Bernard Creek, and 0.8 mi (1.3 mi) upstream from Squirrel Creek.

DRAINAGE AREA.--420 mi² (1,090 km²), approximately.

PERIOD OF RECORD.--May 1950 to December 1954, January to September 1955 (fragmentary), October 1955 to current year.

REVISED RECORDS.--WDR AK-75-1: 1974.

GAGE.--Water-stage recorder. Altitude of gage is 1,500 ft (460 m), from topographic map. Prior to Oct. 16, 1957, at site 800 ft (240 m) downstream at different datum. Oct. 17, 1957 to Apr. 18, 1967, June 9, 1973 to Apr. 17, 1974, nonrecording gage and Apr. 19, 1967 to June 8, 1973, water-stage recorder at site 0.2 mi (0.3 km) downstream at prior datum. Apr. 18, 1974 to May 30, 1975, nonrecording gage at present site and datum.

REMARKS.--Records good except those for Oct. 28 to June 2, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years (water years 1951-54, 1956-76), 829 ft³/s (23.48 m³/s), 26.80 in/yr (681 mm/yr), 600,600 acre-ft/yr (741 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,490 ft³/s (240 m³/s) June 17, 1962, gage height, 4.91 ft (1.497 m), from graph based on gage readings, site and datum then in use; maximum gage height, 7.00 ft (2.134 m) June 8, 1957, from graph based on gage readings, site and datum then in use; minimum daily discharge, about 35 ft³/s (0.99 m³/s) Mar. 11 to Apr. 20, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,210 ft³/s (90.9 m³/s) June 30, gage height, 20.78 ft (6.334 m); minimum daily, about 70 ft³/s (2.0 m³/s) Feb. 11 to Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	150	120	90	80	70	75	140	1300	3180	2200	999
2	1110	140	120	90	80	70	75	180	1400	3150	2430	932
3	1030	140	120	90	80	70	75	240	1480	3030	2560	860
4	961	140	120	90	80	70	75	300	1650	2830	2500	783
5	904	140	120	90	80	70	75	400	1760	2530	2460	724
6	834	140	120	80	80	70	75	500	1920	2350	2420	685
7	774	140	120	80	80	70	75	500	1930	2280	2300	648
8	732	140	120	80	80	70	75	450	2020	2340	2270	648
9	670	140	120	80	80	70	75	400	2190	2420	2200	632
10	632	140	120	80	80	70	75	400	2280	2530	2060	595
11	618	130	120	80	70	70	75	450	2540	2590	1940	550
12	602	130	120	80	70	70	75	450	2820	2560	2040	505
13	588	130	120	80	70	70	75	450	2940	2460	2190	477
14	565	130	120	80	70	70	75	420	3040	2360	2170	444
15	550	130	120	80	70	70	75	418	3040	2220	2090	477
16	535	130	120	80	70	70	75	406	3030	2090	1990	535
17	505	130	120	80	70	70	75	406	2950	2090	1900	512
18	451	130	120	80	70	70	75	464	2750	2040	1820	477
19	418	130	120	80	70	70	75	444	2460	2020	1820	520
20	432	130	120	80	70	70	75	380	2320	2030	1800	670
21	406	130	110	80	70	70	75	400	2380	2040	1760	876
22	366	130	110	80	70	70	75	450	2470	2060	1740	1070
23	380	130	110	80	70	70	75	550	2470	2040	1730	1140
24	380	130	110	80	70	70	75	500	2440	1980	1680	1120
25	366	130	110	80	70	70	75	600	2500	1870	1620	1080
26	327	130	100	80	70	70	80	700	2720	1800	1570	1060
27	272	130	100	80	70	70	85	800	2920	1730	1450	990
28	240	130	100	80	70	70	90	900	3090	1670	1310	932
29	200	130	100	80	70	70	100	1000	3180	1650	1190	876
30	180	130	100	80	---	70	120	1100	3200	1760	1100	817
31	170	---	100	80	---	70	---	1200	---	1980	1050	---
TOTAL	17378	4010	3550	2530	2130	2170	2350	15998	73190	69680	59360	22634
MEAN	561	134	115	81.6	73.4	70.0	78.3	516	2440	2248	1915	754
MAX	1180	150	120	90	80	70	120	1200	3200	3180	2560	1140
MIN	170	130	100	80	70	70	75	140	1300	1650	1050	444
CFSM	1.34	.32	.27	.19	.17	.17	.19	1.23	5.81	5.35	4.56	1.80
IN.	1.54	.36	.31	.22	.19	.19	.21	1.42	6.48	6.17	5.26	2.00
AC-FT	34470	7950	7040	5020	4220	4300	4660	31730	145200	138200	117700	44890

CAL YR 1975 TOTAL 311797 MEAN 854 MAX 4520 MIN 70 CFSM 2.03 IN 27.62 AC-FT 618400
WTR YR 1976 TOTAL 274980 MEAN 751 MAX 3200 MIN 70 CFSM 1.79 IN 24.36 AC-FT 545400

NOTE.--No gage-height record Oct. 30 to May 5.

15212000 COPPER RIVER NEAR CHITINA

LOCATION.--Lat 61°27'56", long 144°27'21", in SW¼NE¼ sec.2, T.5 S., R.5 E., Hydrologic Unit 19050003, on right bank at head of Woods Canyon, 0.5 mi (0.8 km) downstream from Taral Creek and abandoned Indian village of Taral, 2.2 mi (3.5 km) upstream from Tenas Creek, and 3.5 mi (5.6 km) south of Chitina.

DRAINAGE AREA.--20,600 mi² (53,400 km²), approximately.

PERIOD OF RECORD.--July to September 1950, May to November 1952, October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map. Prior to June 2, 1952, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 1.4 ft (0.43 m) higher.

REMARKS.--Records good except those for the period of no gage-height record, Oct. 7 to June 1, which are poor, and Aug. 3 and 4, which are fair. Streamflow augmented by glaciers, which cover 17 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--21 years, 36,720 ft³/s (1,040 m³/s), 24.21 in/yr (615 mm/yr), 26,600,000 acre-ft/yr (32.8 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 265,000 ft³/s (7,500 m³/s) July 15, 1971, gage height, 29.94 ft (9.126 m), from rating curve extended above 170,000 ft³/s (4,800 m³/s); minimum daily, about 2,000 ft³/s (57 m³/s) Mar. 1-31, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since 1950, that of July 15, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 200,000 ft³/s (5,700 m³/s) Aug. 3, gage height, 25 ft (7.6 m), from graph based on adjacent gage-height record and station 15208000; minimum daily, about 5,000 ft³/s (140 m³/s) Feb. 11 to Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46500	10000	7000	6000	5500	5000	5000	9000	34000	133000	149000	54700
2	43700	9000	7000	6000	5500	5000	5000	10000	36300	128000	177000	51200
3	41200	9000	6000	6000	5500	5000	5000	11000	39900	120000	192000	46300
4	38800	9000	6000	6000	5500	5000	5000	12000	44200	109000	178000	42300
5	36400	9000	6000	6000	5500	5000	5000	14000	46300	108000	173000	39900
6	34600	9000	6000	6000	5500	5000	5000	15000	51200	107000	157000	38100
7	32000	9000	6000	6000	5500	5000	5000	15000	49100	106000	141000	36000
8	30000	9000	6000	6000	5500	5000	5000	13000	48400	110000	152000	36000
9	28000	9000	6000	6000	5500	5000	5000	13000	53300	117000	141000	34000
10	28000	9000	6000	6000	5500	5000	5000	13000	58200	125000	121000	34000
11	26000	8000	6000	5500	5000	5000	5000	13000	65200	125000	111000	32000
12	26000	8000	6000	5500	5000	5000	5000	13000	72000	119000	117000	30000
13	26000	8000	6000	5500	5000	5000	5000	13000	73600	120000	116000	28000
14	26000	8000	6000	5500	5000	5000	5000	13000	77600	122000	120000	24000
15	24000	8000	6000	5500	5000	5000	5000	13000	80800	114000	116000	24000
16	24000	8000	6000	5500	5000	5000	5000	13000	83200	106000	109000	28000
17	22000	8000	6000	5500	5000	5000	5000	13000	80000	108000	101000	28000
18	22000	8000	6000	5500	5000	5000	5000	14000	74400	105000	95600	26000
19	20000	8000	6000	5500	5000	5000	5000	15000	67300	106000	92000	26000
20	19000	8000	6000	5500	5000	5000	5000	15000	68800	111000	87200	30000
21	18000	7000	6000	5500	5000	5000	5500	16000	71200	117000	84000	40000
22	17000	7000	6000	5500	5000	5000	5500	17000	73600	117000	83200	55000
23	16000	7000	6000	5500	5000	5000	5500	18000	77600	116000	83200	60000
24	15000	7000	6000	5500	5000	5000	5500	19000	79200	112000	84000	60000
25	14000	7000	6000	5500	5000	5000	5500	20000	84800	106000	83200	60000
26	13000	7000	6000	5500	5000	5000	6000	22000	92000	105000	82400	60000
27	12000	7000	6000	5500	5000	5000	6000	22000	103000	108000	77600	55000
28	12000	7000	6000	5500	5000	5000	6000	24000	111000	103000	72800	50000
29	11000	7000	6000	5500	5000	5000	7000	26000	119000	97400	65900	46000
30	11000	7000	6000	5500	---	5000	8000	28000	130000	107000	60300	44000
31	10000	---	6000	5500	---	5000	---	30000	---	126000	57500	---
TOTAL	743200	241000	188000	175500	150000	155000	160500	502000	2145200	3513400	3479900	1218500
MEAN	23970	8033	6065	5661	5172	5000	5350	16190	71510	113300	112300	40620
MAX	46500	10000	7000	6000	5500	5000	8000	30000	130000	133000	192000	60000
MIN	10000	7000	6000	5500	5000	5000	5000	9000	34000	97400	57500	24000
CFSM	1.16	.39	.29	.27	.25	.24	.26	.79	3.47	5.50	5.45	1.97
IN.	1.34	.44	.34	.32	.27	.28	.29	.91	3.87	6.34	6.28	2.20
AC-FT	1474000	478000	372900	348100	297500	307400	318400	995700	4255000	6969000	6902000	2417000

CAL YR 1975 TOTAL 14189600 MEAN 38880 MAX 190000 MIN 6000 CFSM 1.89 IN 25.62 AC-FT 28150000
WTR YR 1976 TOTAL 12672200 MEAN 34620 MAX 192000 MIN 5000 CFSM 1.68 IN 22.88 AC-FT 25140000

15216000 POWER CREEK NEAR CORDOVA

LOCATION.--Lat 60°35'14", long 145°37'05", Hydrologic Unit 19050003, on right bank at old bridge site, 1 mi (1.6 km) upstream from Eyak Lake, and 5.5 mi (8.8 km) northeast of Cordova.

DRAINAGE AREA.--20.5 mi² (53.1 km²).

PERIOD OF RECORD.--July to November 1913 (fragmentary), August 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 33.5 ft (10.21 m) above mean sea level (river profile survey). July to November 1913, nonrecording gage 0.5 mi (0.8 km) upstream at different datum. August 1947 to March 1960, water-stage recorder on left bank at same datum.

REMARKS.--Records good except those for the period of no gage-height record, Nov. 25 to July 2, which are poor. Streamflow augmented by glaciers, which cover 27 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 244 ft³/s (6.910 m³/s), 161.64 in/yr (4,106 mm/yr), 176,800 acre-ft/yr (218 hm³/yr)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 5,540 ft³/s (157 m³/s) Sept. 25, 1949, gage height, 7.65 ft (2.332 m), from rating curve extended above 1,450 ft³/s (41.1 m³/s); minimum recorded, 13 ft³/s (0.37 m³/s) Apr. 29, 1950, gage height, 1.50 ft (0.457 m), but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Sept. 8	0730	1,740	49.3	4.61	1.405	Sept. 19	0630	2,090	59.2	4.81	1.46
Sept. 15	1300	*2,200	62.3	*4.87	1.484	Sept. 28	0730	1,910	54.1	4.71	1.43

Minimum daily discharge, about 18 ft³/s (0.51 m³/s) Mar. 16 to Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	636	70	50	30	48	30	18	400	800	840	719	214
2	405	50	45	28	46	30	18	350	760	760	650	200
3	350	45	45	28	44	26	20	330	700	684	585	233
4	286	40	40	25	42	26	20	390	600	593	551	271
5	238	40	35	23	42	26	20	370	600	465	504	216
6	208	40	30	23	40	26	20	350	700	517	468	203
7	187	38	25	23	40	26	21	340	660	600	755	313
8	169	38	22	20	38	22	23	320	700	673	693	1270
9	155	38	22	20	38	22	30	300	800	734	597	662
10	155	38	22	20	38	22	70	400	840	674	506	363
11	232	38	20	20	36	22	40	450	900	582	501	303
12	660	38	20	20	36	20	35	470	960	547	535	278
13	756	40	20	20	36	20	44	480	800	531	478	264
14	668	40	20	20	36	20	35	450	860	499	462	958
15	395	45	20	20	34	20	30	500	900	465	389	1780
16	298	50	25	20	34	18	26	500	900	527	373	1010
17	232	54	30	20	34	18	27	520	1200	526	395	1230
18	195	58	50	25	34	18	28	500	800	458	544	1360
19	175	60	80	30	34	18	29	450	740	490	698	1490
20	157	62	100	40	32	18	30	350	700	521	464	1400
21	147	62	90	50	32	18	35	400	660	512	402	842
22	139	62	70	45	32	18	40	420	660	499	396	986
23	335	59	60	40	32	18	50	500	700	474	382	531
24	235	56	55	40	30	18	70	700	900	430	357	557
25	171	54	50	35	30	18	150	600	940	415	316	619
26	141	52	45	35	30	18	300	560	940	424	330	571
27	129	52	40	35	30	18	220	600	860	417	390	409
28	118	50	35	40	30	18	300	640	800	405	342	1110
29	110	50	35	45	30	18	500	600	860	447	281	561
30	100	50	30	50	---	18	450	580	840	564	242	383
31	90	---	30	50	---	18	---	700	---	654	227	---
TOTAL	8272	1469	1261	940	1038	646	2699	14520	24080	16927	14532	20587
MEAN	267	49.0	40.7	30.3	35.8	20.8	90.0	468	803	546	469	686
MAX	756	70	100	50	48	30	500	700	1200	840	755	1780
MIN	90	38	20	20	30	18	18	300	600	405	227	200
CFSM	13.0	2.39	1.99	1.48	1.75	1.01	4.39	22.8	39.2	26.6	22.9	33.5
IN.	15.01	2.67	2.29	1.71	1.88	1.17	4.90	26.35	43.69	30.71	26.37	37.36
AC-FT	16410	2910	2500	1860	2060	1280	5350	28800	47760	33570	28820	40830

CAL YR 1975 TOTAL 82674 MEAN 227 MAX 2920 MIN 20 CFSM 11.1 IN 150.02 AC-FT 164000
WTR YR 1976 TOTAL 106971 MEAN 292 MAX 1780 MIN 18 CFSM 14.2 IN 194.10 AC-FT 212200

15219000 WEST FORK OLSEN BAY CREEK NEAR CORDOVA

LOCATION.--Lat 60°45'41", long 146°10'20", in NW¼NE¼ sec.7, T.13 S., R.5 W., Hydrologic Unit 19050003, in Chugach National Forest, on left bank 600 ft (200 m) upstream from confluence with East Fork, and 21 mi (34 km) northwest of Cordova.

DRAINAGE AREA.--4.78 mi^2 (12.38 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WSP 2136: 1965 (P).

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

REMARKS.--Water-discharge records fair except those for Oct. 31 to Apr. 10, which are poor.

AVERAGE DISCHARGE.--12 years, 30.4 ft^3/s (0.861 m^3/s), 86.37 in/yr (2,194 mm/yr), 22,020 acre-ft/yr (27.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Sept. 12, 1972, gage height, 5.30 ft (1.615 m), from rating curve extended above 150 ft^3/s (4.2 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 5.64 ft (1.719 m) May 4, 1972, backwater from ice; minimum daily discharge, 0.5 ft^3/s (0.014 m^3/s) Mar. 5-21, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 450 ft^3/s (12.7 m^3/s) Sept. 15, gage height, 3.80 ft (1.158 m), from rating curve extended above 130 ft^3/s (3.7 m^3/s, no peak above base of 480 ft^3/s (14 m^3/s); maximum gage height, 4.47 ft (1.362 m) Apr. 10, backwater from ice; minimum daily discharge, about 1.5 ft^3/s (0.042 m^3/s) Dec. 29 to Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	4.0	2.5	1.5	3.0	2.0	2.5	66	82	59	32	8.8
2	63	4.0	2.0	1.5	3.0	2.0	2.5	48	78	47	29	8.4
3	50	4.0	2.0	1.5	3.0	2.0	2.5	48	68	47	24	8.4
4	45	3.5	2.0	1.5	2.5	2.5	2.5	58	53	45	20	8.4
5	34	3.5	2.0	1.5	2.5	2.5	2.5	54	53	39	18	8.0
6	29	3.0	2.0	1.5	3.0	3.0	2.5	46	76	46	18	7.4
7	22	3.0	2.0	1.5	3.0	4.0	2.5	39	74	58	58	16
8	18	3.0	2.0	1.5	3.0	3.5	3.0	35	62	58	63	141
9	14	3.0	2.0	2.0	3.0	3.5	7.0	32	74	58	48	75
10	14	3.0	2.0	2.0	2.5	3.0	20	46	78	53	36	44
11	39	2.5	2.0	2.0	2.5	2.5	5.9	47	86	47	33	34
12	87	2.5	2.0	2.0	3.0	2.5	6.2	48	89	46	47	32
13	121	2.5	2.0	2.5	3.0	2.0	9.2	49	67	41	40	26
14	99	2.5	2.0	2.5	3.0	2.5	6.2	45	72	36	30	110
15	54	2.5	2.0	2.5	3.0	2.5	5.3	51	74	37	25	250
16	36	2.5	3.0	2.5	3.0	3.0	4.6	48	67	41	22	87
17	30	2.5	4.5	3.0	2.5	3.0	4.2	51	151	46	22	148
18	25	2.5	7.0	3.5	2.5	2.5	4.4	50	84	37	46	183
19	18	2.5	4.0	4.0	2.5	2.5	4.6	36	69	35	67	105
20	14	3.0	3.0	3.0	2.5	2.5	5.3	30	61	36	45	79
21	12	3.0	2.5	5.0	2.5	2.5	5.3	31	53	35	30	36
22	12	3.5	2.5	4.0	2.5	2.5	5.6	41	47	41	25	53
23	81	4.0	2.0	3.5	2.5	2.5	6.2	59	49	36	20	35
24	33	5.0	2.0	3.0	2.5	2.5	9.6	50	62	32	18	34
25	18	4.0	2.0	3.0	2.5	3.0	14	49	74	29	16	49
26	12	3.5	2.0	2.5	2.5	2.5	81	53	76	29	14	70
27	10	3.5	2.0	3.0	2.0	2.5	70	54	75	26	12	38
28	8.8	3.0	2.0	3.0	2.0	2.5	53	52	66	26	12	135
29	8.4	2.5	1.5	3.0	2.0	2.5	59	47	63	23	11	52
30	6.2	2.5	1.5	4.0	---	2.5	72	50	63	26	10	20
31	4.5	---	1.5	3.5	---	2.5	---	73	---	30	9.2	---
TOTAL	1130.9	94.0	73.5	81.0	77.0	81.5	479.1	1486	2146	1245	900.2	1901.4
MEAN	36.5	3.13	2.37	2.61	2.66	2.63	16.0	47.9	71.5	40.2	29.0	63.4
MAX	121	5.0	7.0	5.0	3.0	4.0	81	73	151	59	67	250
MIN	4.5	2.5	1.5	1.5	2.0	2.0	2.5	30	47	23	9.2	7.4
CFSM	7.64	.65	.50	.55	.56	.55	3.35	10.0	15.0	8.41	6.07	13.3
IN.	8.80	.73	.57	.63	.60	.63	3.73	11.56	16.70	9.69	7.00	14.79
AC-FT	2240	186	146	161	153	162	956	2950	4260	2470	1790	3770

CAL YR 1975 TOTAL 10660.6 MEAN 29.2 MAX 416 MIN 1.5 CFSM 6.11 IN 82.95 AC-FT 21150
WTR YR 1976 TOTAL 9695.6 MEAN 26.5 MAX 250 MIN 1.5 CFSM 5.54 IN 75.44 AC-FT 19230

15219000 WEST FORK OLSEN BAY CREEK NEAR CORDOVA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1964 to current year.

INSTRUMENTATION.--Temperature recorder since Oct. 1, 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 9.5°C Aug. 2, 1969; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 9.0°C Aug. 22; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 21...	0915	13	25	6.2	.0	3.5	0	1	13.0	.2
DEC 05...	1300	2.0	37	6.6	--	.5	0	0	13.8	--
FEB 18...	1530	2.5	37	6.2	--	.0	<5	0	--	--
APR 07...	1300	2.6	40	6.4	--	.5	5	<1	13.4	.1
JUL 08...	1300	50	16	5.9	--	6.0	<5	0	12.2	.3
AUG 23...	1020	20	20	6.2	--	7.5	--	--	--	--

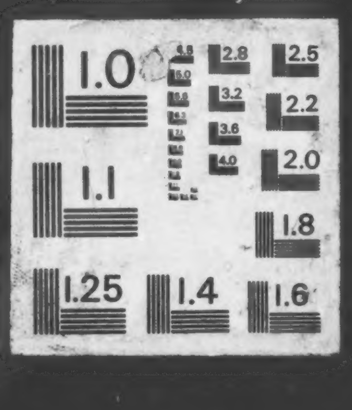
DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 21...		12	2.9	.13	.02	.06	.08	.21	.00
DEC 05...	14	5.6	--	.19	.04	.00	.00	.19	.00
FEB 18...	12	12	--	.21	.01	.06	.07	.28	.00
APR 07...	13	8.3	5.3	.19	.02	.02	.04	.23	.00
JUL 08...	6	12	2.4	.08	.00	.02	.02	.10	.00
AUG 23...	8	8.1	--	.14	.03	.00	.03	.17	.01

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 21...	0915	0	20	0	.0	470
APR 07...	1300	20	100	10	.0	480
JUL 08...	1300	<10	20	0	.1	0

OF 5

PB

75 889


1.0
4.5
5.0
5.6
6.3
7.1
8.0
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.1
1.8
1.25
1.4
1.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT 21...	1.0	.0
DEC 05...	.4	--
FEB 18...	.7	--
APR 07...	.3	.0
JUL 08...	.9	.0
AUG 23...	1.1	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 21...	0915	13	.0	3.5	1	1	.04
DEC 05...	1300	2.0	--	.5	0	3	.02
FEB 18...	1530	2.5	--	.0	0	1	.01
APR 07...	1300	2.6	--	.5	<1	1	.01
JUL 08...	1300	50	--	6.0	0	0	.00
AUG 23...	1020	20	--	7.5	--	0	.00

15219000 WEST FORK OLSEN BAY CREEK NEAR CORDOVA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	6.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6.0	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	6.5	6.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	6.5	6.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	6.0	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.5	5.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.0	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	5.0	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	5.5	5.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	5.5	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	5.5	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	5.5	5.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	5.5	5.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.0	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	4.5	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	4.0	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.5	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	3.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	4.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	1.0	0.5	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	6.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	1.0	0.5	3.5	2.0	5.0	5.0	8.0	6.5	8.0	8.0
2	0.0	0.0	1.5	1.0	3.5	2.5	5.5	5.0	7.0	6.5	8.0	8.0
3	0.5	0.0	2.0	1.5	3.0	3.0	5.5	5.0	7.0	6.5	8.0	7.0
4	0.5	0.0	2.0	2.0	3.0	3.0	5.0	5.0	8.0	6.5	8.0	7.0
5	0.5	0.5	2.0	2.0	3.0	3.0	5.5	5.0	8.0	7.0	7.0	6.0
6	0.5	0.5	2.0	1.5	3.0	3.0	7.0	5.0	7.0	6.5	7.0	6.5
7	0.5	0.5	1.5	1.5	3.0	3.0	7.0	5.5	6.5	6.5	6.5	6.5
8	0.5	0.5	2.0	1.5	4.0	3.0	6.5	5.5	6.5	6.5	6.5	6.5
9	0.5	0.0	1.5	1.5	3.5	3.0	7.0	5.0	6.5	6.5	7.0	6.5
10	0.0	0.0	1.5	1.5	3.5	3.0	6.0	6.0	7.0	6.5	6.5	6.0
11	0.5	0.0	1.5	1.5	4.5	3.0	6.0	6.0	7.0	7.0	6.5	6.0
12	0.5	0.5	2.0	1.5	3.5	3.0	6.0	6.0	7.0	7.0	6.5	6.0
13	0.5	0.5	1.5	1.5	4.0	3.0	6.5	6.0	8.0	6.5	6.5	6.5
14	0.5	0.5	2.0	1.5	4.5	3.5	6.0	5.5	8.0	8.0	6.5	6.0
15	0.5	0.5	1.5	1.5	4.0	3.5	6.0	6.0	8.0	7.0	6.0	6.0
16	0.5	0.5	3.0	1.5	3.5	3.5	6.0	6.0	7.0	7.0	6.0	6.0
17	0.5	0.5	3.0	1.5	4.0	3.5	6.0	6.0	8.0	7.0	6.0	6.0
18	0.5	0.5	2.0	2.0	5.0	4.0	5.0	6.0	8.0	8.0	6.0	6.0
19	0.5	0.5	2.5	2.0	4.5	4.0	7.0	6.0	8.0	8.0	6.0	6.0
20	0.5	0.5	3.0	2.5	4.0	4.0	8.0	6.0	8.5	7.0	6.5	6.0
21	1.0	0.5	3.0	2.0	4.0	4.0	7.0	6.5	8.5	7.0	6.5	6.5
22	0.5	0.5	3.5	2.5	5.0	4.0	6.5	6.5	9.0	8.0	6.5	6.5
23	1.0	0.5	3.0	2.5	5.5	4.0	6.5	6.5	8.0	8.0	6.5	6.0
24	1.0	0.0	3.5	2.0	5.5	4.0	7.0	6.0	8.0	8.0	6.5	6.0
25	0.5	0.0	3.0	2.0	6.0	4.5	8.0	6.0	8.0	8.0	6.5	6.5
26	0.0	0.0	3.0	2.5	6.0	4.5	7.0	6.5	8.0	8.0	6.5	6.5
27	0.5	0.0	2.5	2.5	5.0	5.0	7.0	6.5	8.0	8.0	6.5	5.5
28	1.5	0.5	3.0	2.5	5.5	4.5	7.0	7.0	8.0	8.0	6.0	6.0
29	1.5	0.5	3.0	2.5	6.0	4.5	7.0	7.0	8.0	8.0	6.0	6.0
30	1.5	0.5	4.0	2.0	5.5	5.0	8.5	7.0	8.0	7.0	6.0	5.5
31	---	---	4.0	2.0	---	---	8.5	7.0	8.0	7.0	---	---
MONTH	1.5	0.0	4.0	0.5	6.0	2.0	8.5	5.0	9.0	6.5	8.0	5.5
YEAR	9.0	0.0										

15226600 LOWE RIVER IN KEYSTONE CANYON NEAR VALDEZ

LOCATION.--Lat 61°05'24", long 145°53'15", in SE¼NW¼ sec.14, T.9 S., R.4 W., Hydrologic Unit 19050003, on left bank 500 ft (150 m) south of south entrance to Richardson Highway tunnel, 1,000 ft (300 m) downstream from unnamed tributary, 1.8 mi (2.9 km) upstream from unnamed tributary, and 17.5 mi (28.2 km) east of Valdez.

DRAINAGE AREA.--222 mi^2 (575 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 386.59 ft (117.833 m) above mean sea level (levels by Alaska Department of Highways).

REMARKS.--Water-discharge records poor for period of no gage-height record prior to May 1 and good thereafter. Streamflow is augmented and large diurnal fluctuation is caused by meltage from glaciers that cover 42 percent of the basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Sept. 11, 1975, gage height 9.2 ft (2.80 m), from floodmarks, from rating curve extended above 3,900 ft^3/s (110 m^3/s) on basis of velocity-area study; minimum, about 2 ft^3/s (0.06 m^3/s) Apr. 30, 1976, gage height, 2.15 ft (0.655 m) caused by temporary blockage of flow by snowslide about 0.3 mi (0.5 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,050 ft^3/s (228 m^3/s) Aug. 1, gage height, 8.57 ft^3/s (2.612 m), from rating curve extended as explained above; minimum, about 2 ft^3/s (0.06 m^3/s) Apr. 30, gage height, 2.15 ft (0.655 m) caused by temporary blockage of flow by snowslide about 0.3 mi (0.5 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2000	150	70	66	58	54	48	202	1320	4710	6980	1770
2	1200	150	70	66	58	54	48	215	1550	3720	6600	1550
3	960	150	70	66	58	54	48	245	1650	3480	5800	1350
4	850	150	70	66	58	54	48	266	1640	3310	5500	1340
5	800	100	70	66	58	54	48	314	1550	2980	4980	1350
6	800	100	60	66	58	54	48	320	1520	3640	3930	1280
7	750	100	60	66	58	54	48	296	1590	4600	4600	1350
8	750	100	60	66	58	54	48	296	1850	4980	4220	1770
9	700	100	60	66	58	54	48	320	1910	5520	3490	1480
10	700	90	60	66	58	54	48	327	2030	5400	3500	1150
11	700	90	60	66	58	54	48	355	2940	4480	3640	1020
12	750	90	60	62	58	54	48	390	3280	4030	4110	980
13	800	90	60	62	58	54	48	397	2930	4030	3900	960
14	900	90	60	62	58	54	48	341	2940	3500	3620	1230
15	900	90	60	62	54	54	48	327	3250	3310	3140	1670
16	800	80	60	62	54	50	48	383	3140	3440	3280	1370
17	700	80	60	62	54	50	48	468	3150	3580	3090	1420
18	600	80	60	62	54	50	48	516	2800	3680	3260	2010
19	500	80	70	62	54	50	48	460	2570	4300	3340	2400
20	420	80	70	62	54	50	48	411	2440	4460	3160	3220
21	360	80	70	62	54	50	48	432	2400	4500	3440	3610
22	340	80	66	62	54	50	48	450	2330	4600	3720	3730
23	300	80	66	62	54	50	50	470	2600	4030	3550	2740
24	300	70	66	62	54	50	60	480	3360	3600	3280	2340
25	300	70	66	62	54	50	70	500	4120	3680	3010	2310
26	250	70	66	58	54	50	80	540	4800	3820	2450	2010
27	250	70	66	58	54	50	90	600	4930	3600	2410	1650
28	250	70	66	58	54	50	100	700	4800	3640	2100	2220
29	200	70	66	58	54	50	120	790	5300	4320	1940	1730
30	200	70	66	58	---	50	160	1010	5520	5780	1940	1440
31	200	---	66	58	---	50	---	1170	---	6840	1910	---
TOTAL	19530	2770	2000	1942	1622	1610	1786	13991	86210	129560	113890	54450
MEAN	630	92.3	64.5	62.6	55.9	51.9	59.5	451	2874	4179	3674	1815
MAX	2000	150	70	66	58	54	160	1170	5520	6840	6980	3730
MIN	200	70	60	58	54	50	48	202	1320	2980	1910	960
CFSM	2.84	.42	.29	.28	.25	.23	.27	2.03	12.9	18.8	16.5	8.18
IN.	3.27	.46	.34	.33	.27	.27	.30	2.34	14.45	21.71	19.08	9.12
AC-FT	38740	5490	3970	3850	3220	3190	3540	27750	171000	257000	225900	108000

CAL YR 1975 TOTAL 446340 MEAN 1223 MAX 7600 MIN 45 CFSM 5.51 IN 74.79 AC-FT 885300
WTR YR 1976 TOTAL 429361 MEAN 1173 MAX 6980 MIN 48 CFSM 5.28 IN 71.95 AC-FT 851600

15226600 LOWE RIVER IN KEYSTONE CANYON NEAR VALDEZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1975 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since June 1, 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 6.5°C June 27, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 5.0°C July 6, 7, 18, 20, 24.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER 1975

DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN
1	3.5	2.5	11	1.5	1.0	21	1.0	0.5
2	3.5	3.0	12	2.0	1.5	22	1.0	0.5
3	4.0	3.0	13	2.5	2.0	23	1.5	1.0
4	4.0	3.5	14	2.5	2.5	24	1.5	1.0
5	3.5	2.5	15	2.5	2.5	25	2.0	1.0
6	3.5	2.5	16	2.5	2.0	26	1.5	0.5
7	2.5	2.0	17	2.5	1.5	27	1.5	1.0
8	3.0	2.0	18	1.5	1.0	28	---	---
9	2.0	1.0	19	1.5	0.5	29	---	---
10	1.0	1.0	20	1.0	0.5	30	---	---
						31	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3.0	1.5	3.0	1.0	3.5	2.5	4.0	3.0	3.5	2.5
2	---	---	3.0	1.5	3.0	1.0	3.0	2.0	4.0	3.0	3.5	2.5
3	---	---	3.5	1.5	2.5	1.5	4.0	2.5	4.0	3.0	3.0	2.0
4	---	---	3.0	2.0	3.0	1.5	3.5	2.5	4.5	3.0	4.0	2.5
5	---	---	2.5	1.5	2.5	1.5	3.5	2.5	4.0	3.0	4.0	2.0
6	---	---	2.5	1.5	2.0	2.0	5.0	2.5	3.5	3.0	3.5	2.0
7	---	---	2.5	1.5	4.0	2.0	5.0	3.0	3.0	3.0	3.0	2.5
8	---	---	3.0	1.0	3.5	2.0	4.5	3.0	3.0	3.0	3.0	2.5
9	---	---	2.5	1.0	2.5	2.0	4.5	3.0	3.0	3.0	3.5	2.5
10	---	---	2.5	1.0	4.0	1.5	3.5	3.0	4.0	3.0	3.0	2.0
11	---	---	2.0	1.0	3.0	0.5	3.5	3.0	3.5	3.0	4.0	2.5
12	---	---	2.5	1.0	2.5	1.5	4.0	3.0	3.0	3.0	3.5	3.0
13	---	---	2.0	1.0	2.0	1.5	4.0	3.0	4.0	3.0	4.0	3.0
14	---	---	2.5	1.5	3.5	1.5	3.5	2.5	3.5	3.0	3.5	2.5
15	---	---	3.0	1.5	4.0	1.5	3.5	3.0	3.5	3.0	2.5	2.0
16	---	---	4.0	1.5	2.5	1.5	3.5	3.0	3.5	3.0	3.5	2.0
17	---	---	3.5	1.0	2.5	1.5	3.0	3.0	3.5	3.0	4.0	3.0
18	---	---	2.0	1.0	4.5	1.5	5.0	3.0	3.0	3.0	3.5	3.5
19	---	---	2.5	1.5	3.0	2.0	4.5	3.0	3.5	3.0	3.5	3.5
20	---	---	3.5	1.5	3.0	2.0	5.0	3.0	3.5	3.0	4.0	3.5
21	---	---	4.0	1.5	2.5	2.0	4.5	3.0	4.0	3.0	4.0	3.5
22	---	---	3.5	1.0	3.5	2.0	4.0	3.0	4.0	3.0	3.5	3.0
23	---	---	2.5	1.0	4.5	1.5	3.5	3.0	4.0	2.5	3.0	2.5
24	---	---	3.5	1.0	4.5	1.5	5.0	2.5	3.5	3.0	3.0	2.5
25	---	---	3.0	0.5	4.5	2.0	4.5	2.5	4.0	3.0	3.0	2.5
26	---	---	1.5	1.0	4.5	2.0	3.5	3.0	3.0	2.5	3.0	2.5
27	---	---	2.5	1.0	3.0	2.5	4.0	3.0	3.0	2.5	3.0	2.0
28	---	---	3.5	1.0	4.5	2.0	3.5	3.0	3.5	2.5	2.5	2.0
29	---	---	4.0	1.0	4.5	2.0	4.5	3.0	4.0	2.5	2.5	2.0
30	3.5	1.0	3.5	0.5	4.0	2.5	4.5	3.0	4.0	2.5	2.5	1.5
31	---	---	3.0	0.5	---	---	4.5	3.0	4.0	2.5	---	---
MONTH	---	---	4.0	0.5	4.5	0.5	5.0	2.0	4.5	2.5	4.0	1.5

15236900 WOLVERINE CREEK NEAR LAWING

LOCATION.--Lat 60°22'14", long 148°53'48", in NE¼ sec.10, T.3 N., R.3 E., Kenai Peninsula Borough, Hydrologic Unit 19050003, on left bank about 0.1 mi (0.2 km) downstream from terminus of Wolverine Glacier, 2.0 mi (3.2 km) upstream from mouth, and 16 mi (26 km) east of Lawing.

DRAINAGE AREA.--9.51 mi² (24.63 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (360 m), from topographic map.

REMARKS.--Records poor. A recording precipitation gage and air-temperature gage located at 3,300 ft (1,010 m) altitude in basin. Streamflow augmented by Wolverine Glacier, which covers 6.8 mi² (17.6 km²) of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 85.4 ft³/s (2.419 m³/s), 121.95 in/yr (3.098 mm/yr), 61,870 acre-ft/yr (76.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/s (35.7 m³/s) Sept. 7, 1973, gage height, 5.06 ft (1.542 m), from rating curve extended above 530 ft³/s (15 m³/s); maximum gage height, 14.7 ft (4.48 m), from floodmarks, about June 9, 1971, flow over dense snow; minimum daily discharge, 0.3 ft³/s (0.008 m³/s) Apr. 1 to May 3, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s (16 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
July 31	1600	620	17.6	5.35	1.631	Sept. 7	1900	714	20.2	5.64	1.719
Aug. 26	1100	*717	20.3	*5.65	1.722	Sept. 22	0300	569	16.1	5.19	1.582

Minimum daily discharge, about 1.0 ft³/s (0.028 m³/s) Mar. 1 to Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	8.0	3.0	2.0	2.0	1.0	1.0	2.0	20	300	463	205
2	89	6.0	3.0	2.0	2.0	1.0	1.0	2.0	10	250	388	196
3	206	6.0	3.0	2.0	2.0	1.0	1.0	2.0	10	250	379	158
4	144	6.0	3.0	2.0	2.0	1.0	1.0	2.0	10	250	391	150
5	110	6.0	3.0	2.0	2.0	1.0	1.0	2.0	5.0	250	391	147
6	87	6.0	3.0	2.0	2.0	1.0	1.0	2.0	5.0	300	446	153
7	69	4.0	3.0	2.0	2.0	1.0	1.0	2.0	10	400	410	368
8	59	4.0	3.0	2.0	2.0	1.0	1.0	2.0	20	500	400	282
9	46	4.0	3.0	2.0	2.0	1.0	1.0	2.0	10	450	393	192
10	38	4.0	3.0	2.0	2.0	1.0	1.0	2.0	20	400	384	135
11	35	4.0	3.0	2.0	2.0	1.0	1.0	2.0	40	381	357	128
12	58	4.0	3.0	2.0	2.0	1.0	1.0	2.0	30	362	324	174
13	58	4.0	3.0	2.0	2.0	1.0	1.0	2.0	20	357	367	360
14	89	4.0	3.0	2.0	2.0	1.0	1.0	2.0	30	343	357	280
15	75	4.0	3.0	2.0	2.0	1.0	1.0	2.0	40	319	328	176
16	67	4.0	3.0	2.0	2.0	1.0	1.0	2.0	60	284	282	124
17	37	4.0	3.0	2.0	2.0	1.0	1.0	2.0	80	290	270	254
18	30	3.0	2.0	2.0	2.0	1.0	1.0	2.0	100	357	362	199
19	23	3.0	2.0	2.0	2.0	1.0	1.0	2.0	90	376	307	145
20	20	3.0	2.0	2.0	2.0	1.0	1.0	2.0	80	410	328	340
21	18	3.0	2.0	2.0	2.0	1.0	1.0	2.0	80	405	362	396
22	18	3.0	2.0	2.0	2.0	1.0	1.0	2.0	80	376	360	348
23	18	3.0	2.0	2.0	2.0	1.0	1.0	2.0	100	362	350	203
24	16	3.0	2.0	2.0	2.0	1.0	1.0	2.0	200	360	282	362
25	15	3.0	2.0	2.0	2.0	1.0	1.0	3.0	250	364	352	364
26	14	3.0	2.0	2.0	2.0	1.0	1.0	4.0	300	357	582	222
27	12	3.0	2.0	2.0	2.0	1.0	1.0	4.0	200	391	544	168
28	10	3.0	2.0	2.0	2.0	1.0	1.0	3.0	300	364	438	232
29	10	3.0	2.0	2.0	2.0	1.0	2.0	4.0	400	352	357	134
30	8.0	3.0	2.0	2.0	---	1.0	3.0	5.0	300	449	307	111
31	8.0	---	2.0	2.0	---	1.0	---	10	---	511	242	---
TOTAL	1580.0	121.0	79.0	62.0	58.0	31.0	33.0	81.0	2900.0	11120	11503	6706
MEAN	51.0	4.03	2.55	2.00	2.00	1.00	1.10	2.61	96.7	359	371	224
MAX	206	8.0	3.0	2.0	2.0	1.0	3.0	10	400	511	582	396
MIN	8.0	3.0	2.0	2.0	2.0	1.0	1.0	2.0	5.0	250	242	111
CFSM	5.36	.42	.27	.21	.21	.11	.12	.27	10.2	37.7	39.0	23.6
IN.	6.18	.47	.31	.24	.23	.12	.13	.32	11.34	43.49	44.99	26.23
AC-FT	3130	240	157	123	115	61	65	161	5750	22060	22820	13300

CAL YR 1975 TOTAL 29396.5 MEAN 80.5 MAX 588 MIN 1.5 CFSM 8.46 IN 114.98 AC-FT 58310
WTR YR 1976 TOTAL 34274.0 MEAN 93.6 MAX 582 MIN 1.0 CFSM 9.84 IN 134.05 AC-FT 67980

NOTE.--No gage-height record Oct. 26 to July 10.

15238600 SPRUCE CREEK NEAR SEWARD

LOCATION.--Lat 60°04'10", long 149°27'08", Kenai Peninsula Borough, Hydrologic Unit 19050003, on left bank, 0.7 mi (1.1 km) upstream from Resurrection Bay, and 2.4 mi (3.9 km) south of Seward.

DRAINAGE AREA.--9.26 mi² (23.98 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m), from topographic map.

REMARKS.--Records good except those for Oct. 29 to May 20, which are poor.

AVERAGE DISCHARGE.--9 years, 70.4 ft³/s (1.994 m³/s), 103.24 in/yr (2,622 mm/yr), 51,000 acre-ft/yr (62.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) Sept. 20, 1976, gage height, 9.49 ft (2.893 m), from rating curve extended above 1,200 ft³/s (34 m³/s) on basis of slope-area measurement of peak flow; no flow several months of most winters.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1966, reached a stage of 10.1 ft (3.08 m), from floodmarks, discharge, 3,090 ft³/s (87.5 m³/s), revised, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) Sept. 20, gage height, 9.49 ft (2.893 m), from rating curve extended as explained above; no flow Feb. 24 to Apr. 11.

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in WSP 2136 and the report for 1972.

Water Year	Date	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Water Year	Date	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
1967	Sept. 26, 1967	1,810	51.3	7.99	2.435	1970	Oct. 11, 1969	2,200	62.3	8.53	2.600
1969	June 17, 1969	860	24.4	6.70	2,042	1972	Sept. 3, 1972	1,680	47.6	7.83	2.387

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	19	12	4.0	4.0		0	24	106	286	154	68
2	143	17	11	4.0	4.0		0	22	110	214	131	61
3	138	15	10	4.0	4.0		0	20	104	172	127	57
4	114	13	9.0	4.0	3.0		0	19	110	157	124	57
5	97	13	7.0	4.0	3.0		0	20	145	151	106	52
6	81	12	6.0	3.0	3.0		0	22	189	189	131	48
7	71	12	5.0	3.0	2.0		0	24	157	254	124	231
8	62	11	4.0	3.0	2.0		0	23	189	350	265	330
9	55	11	4.0	3.0	2.0		0	22	200	370	234	140
10	58	11	3.0	3.0	2.0		0	21	172	262	160	120
11	76	11	3.0	3.0	1.0		0	22	226	203	122	106
12	129	11	3.0	3.0	1.0		1.0	23	266	172	106	88
13	429	11	3.0	3.0	1.0		1.0	23	250	148	118	98
14	678	11	3.0	3.0	1.0		1.0	23	222	148	104	371
15	222	11	3.0	3.0	1.0		1.0	23	196	151	86	425
16	131	11	3.0	3.0	1.0		1.0	24	270	143	70	259
17	100	11	3.0	2.0	1.0		1.0	23	335	163	157	896
18	81	11	3.0	2.0	1.0		2.0	28	222	166	222	489
19	62	12	3.0	2.0	1.0		2.0	31	189	163	124	242
20	52	12	3.0	2.0	1.0		2.0	29	186	140	108	1340
21	46	12	3.0	2.0	1.0		3.0	35	169	129	112	676
22	47	12	3.0	2.0	1.0		4.0	39	154	127	110	565
23	84	13	4.0	2.0	1.0		5.0	41	186	122	97	234
24	70	13	4.0	2.0	0		8.0	39	282	120	74	178
25	52	13	4.0	2.0	0		18	41	325	129	124	234
26	43	14	4.0	2.0	0		65	47	370	120	154	250
27	38	14	4.0	3.0	0		45	60	340	122	218	166
28	33	14	4.0	3.0	0		30	67	315	120	131	166
29	26	13	4.0	4.0	0		45	68	380	118	100	134
30	23	13	4.0	4.0	---		27	79	355	148	84	102
31	21	---	4.0	4.0	---		---	91	---	186	71	---
TOTAL	3434	377	143.0	91.0	42.0	0	262.0	1073	6720	5443	4048	8183
MEAN	111	12.6	4.61	2.94	1.45	0	8.73	34.6	224	176	131	273
MAX	678	19	12	4.0	4.0	0	65	91	380	370	265	1340
MIN	21	11	3.0	2.0	0	0	0	19	104	118	70	48
CFSM	12.0	1.36	.50	.32	.16	0	.94	3.74	24.2	19.0	14.1	29.5
IN.	13.79	1.51	.57	.37	.17	0	1.05	4.31	26.99	21.86	16.26	32.87
AC-FT	6810	748	284	180	83	0	520	2130	13330	10800	8030	16230

CAL YR 1975 TOTAL 28303.50 MEAN 77.5 MAX 710 MIN 0 CFSM 8.37 IN 113.69 AC-FT 56140
WTR YR 1976 TOTAL 29816.00 MEAN 81.5 MAX 1340 MIN 0 CFSM 8.80 IN 119.77 AC-FT 59140

NOTE.--No gage-height record Nov. 1 to April 26.

15238600 SPRUCE CREEK NEAR SEWARD--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-72, 1974, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP							
22...	1630	550	44	6.9	4.5	18	3.6

15238820 BARBARA CREEK NEAR SELDOVIA

LOCATION.--Lat 59°28'50", long 151°38'42", in SW¼ sec.15, T.8 S., R.14 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 0.5 mi (0.8 km) upstream from mouth and 3.7 mi (6.0 km) northeast of Seldovia.

DRAINAGE AREA.--20.7 mi² (53.6 mi²).

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

REMARKS.--Records good except those for Oct. 29 to May 5, which are poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 744 ft³/s (21.1 m³/s) June 29, 1975, gage height, 4.09 ft (1.247 m) from rating curve extended above 350 ft³/s (9.9 m³/s); minimum daily, about 16 ft³/s (0.45 m³/s) Feb. 27 to Apr. 3, 1973 and Mar. 18 to Apr. 15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft³/s (17.8 m³/s) Sept. 20, gage height, 3.90 ft (1.189 m), from rating curve extended above 350 ft³/s (9.9 m³/s); minimum daily, about 17 ft³/s (0.48 m³/s) Mar. 15 to Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	65	34	30	22	18	17	75	213	328	77	57
2	132	65	32	28	20	18	17	80	242	296	73	63
3	131	60	32	28	20	18	17	85	252	262	70	58
4	118	60	30	26	22	19	17	90	252	237	67	55
5	114	60	30	26	28	19	17	95	318	230	64	53
6	108	55	30	24	28	21	18	99	351	234	64	51
7	101	55	28	24	26	20	18	100	324	239	62	64
8	95	55	28	24	24	19	18	105	322	247	64	66
9	89	50	28	24	21	19	20	107	316	251	60	60
10	111	50	28	24	21	19	22	111	291	242	56	59
11	115	48	28	24	21	18	24	120	293	220	54	58
12	142	46	28	24	20	18	24	126	353	198	53	59
13	253	46	28	24	20	18	25	139	359	182	50	59
14	243	44	28	24	20	18	25	133	327	168	51	80
15	225	44	28	24	20	17	28	134	317	152	48	89
16	196	42	26	24	19	17	30	138	325	143	46	87
17	181	42	26	22	19	17	32	145	329	152	49	229
18	174	42	26	22	19	17	36	157	291	152	54	303
19	152	65	26	22	19	17	39	176	265	149	48	240
20	135	54	28	22	19	17	40	159	261	146	46	411
21	123	47	35	22	19	17	42	164	263	135	44	417
22	119	46	50	22	19	17	46	171	244	117	43	450
23	117	44	40	22	19	17	48	171	246	108	42	383
24	109	42	25	22	18	17	50	171	271	99	41	335
25	101	40	45	22	18	17	50	181	287	93	41	327
26	91	40	49	22	18	17	55	195	300	90	60	363
27	85	38	42	24	18	17	60	194	323	88	85	332
28	80	38	38	26	18	17	65	183	326	87	69	320
29	75	36	36	28	18	17	70	182	316	91	62	275
30	70	36	34	24	---	17	75	190	315	89	57	238
31	70	---	32	24	---	17	---	195	---	82	55	---
TOTAL	3992	1455	998	748	593	551	1045	4371	8892	5307	1755	5641
MEAN	129	48.5	32.2	24.1	20.4	17.8	34.8	141	296	171	56.6	188
MAX	253	65	50	30	28	21	75	195	359	328	85	450
MIN	70	36	25	22	18	17	17	75	213	82	41	51
CFSM	6.23	2.34	1.56	1.16	.99	.86	1.68	6.81	14.3	8.26	2.73	9.08
IN.	7.17	2.61	1.79	1.34	1.07	.99	1.88	7.85	15.98	9.54	3.15	10.14
AC-FT	7920	2890	1980	1480	1180	1090	2070	8670	17640	10530	3480	11190

CAL YR 1975 TOTAL 35327 MEAN 96.8 MAX 617 MIN 16 CFSM 4.68 IN 63.48 AC-FT 70070
WTR YR 1976 TOTAL 35348 MEAN 96.6 MAX 450 MIN 17 CFSM 4.67 IN 63.52 AC-FT 70110

NOTE.--No gage-height record Dec. 28 to May 5.

15238860 TUTKA LAGOON CREEK NEAR HOMER

LOCATION.--Lat 59°25'59", long 151°24'36", on line between sec.36, T.8 S., R.13 W., and sec.2, T.9 S., R.13 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 700 ft (200 m) upstream from mean high water in Tutka Bay Lagoon, and 15 mi (24 km) south of Homer.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1973 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Water-discharge records good except those above 500 ft³/s (14 m³/s) and for Oct. 29 to Aug. 2, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,020 ft³/s (85.5 m³/s) Sept. 17, 1976, gage height, 7.61 ft (2.320 m) from rating curve extended above 850 ft³/s (24 m³/s); minimum daily, about 6.0 ft³/s (0.17 m³/s) Mar 8 to Apr. 15, 1975 and Mar. 24 to Apr. 13, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 13	0500	647	18.3	5.81	1.771	Sept. 20	1130	2,910	82.4	7.55	2.301
Aug. 27	0400	750	21.2	5.95	1.814	Sept. 22	0930	1,200	34.0	6.40	1.951
Sept. 17	1600	*3,020	85.5	*7.61	2.320	Sept. 25	2400	1,030	29.2	6.25	1.905

Minimum daily discharge, about 6.0 ft³/s (0.17 m³/s) Mar. 24 to Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	34	13	10	9.0	8.0	6.0	46	140	266	76	95
2	131	32	13	10	9.0	7.0	6.0	50	130	262	71	145
3	149	30	13	10	9.0	7.0	6.0	52	125	212	68	103
4	115	29	12	10	9.0	7.0	6.0	56	133	173	61	78
5	92	27	12	10	9.0	7.0	6.0	60	210	151	58	68
6	79	26	12	10	9.0	7.0	6.0	66	272	153	67	58
7	67	25	12	10	9.0	7.0	6.0	70	215	171	74	244
8	58	24	12	9.0	9.0	7.0	6.0	70	185	180	73	175
9	51	23	12	9.0	9.0	7.0	6.0	74	165	222	94	108
10	68	22	12	9.0	9.0	7.0	6.0	74	153	205	84	83
11	94	21	11	9.0	9.0	7.0	6.0	80	149	202	75	69
12	169	20	11	9.0	9.0	7.0	6.0	74	258	180	66	78
13	450	20	11	9.0	8.0	7.0	6.0	70	302	163	58	125
14	237	19	11	9.0	8.0	7.0	7.0	66	234	143	57	307
15	169	19	11	9.0	8.0	7.0	7.0	66	208	117	52	280
16	139	18	11	9.0	8.0	7.0	7.0	68	272	101	49	202
17	110	18	11	9.0	8.0	7.0	7.0	64	366	101	93	1250
18	119	17	11	9.0	8.0	7.0	7.0	66	240	125	127	503
19	89	17	11	9.0	8.0	7.0	7.0	68	173	115	78	255
20	71	18	11	9.0	8.0	7.0	8.0	72	151	112	66	1150
21	61	19	11	9.0	8.0	7.0	8.0	76	159	153	60	434
22	106	19	11	9.0	8.0	7.0	9.0	80	133	155	59	671
23	218	19	11	9.0	8.0	7.0	11	86	143	125	54	252
24	123	18	11	9.0	8.0	6.0	17	80	173	106	51	205
25	84	18	11	9.0	8.0	6.0	26	78	198	94	83	590
26	63	17	10	9.0	8.0	6.0	34	86	212	84	371	623
27	55	16	10	9.0	8.0	6.0	36	90	258	76	499	280
28	49	16	10	9.0	8.0	6.0	38	100	286	73	215	210
29	44	14	10	9.0	8.0	6.0	40	110	243	73	143	180
30	40	14	10	9.0	---	6.0	43	120	246	95	96	147
31	36	---	10	9.0	---	6.0	---	130	---	83	76	---
TOTAL	3514	629	348	286.0	244.0	210.0	390.0	2348	6132	4471	3154	8968
MEAN	113	21.0	11.2	9.23	8.41	6.77	13.0	75.7	204	144	102	299
MAX	450	34	13	10	9.0	8.0	43	130	366	266	499	1250
MIN	36	14	10	9.0	8.0	6.0	6.0	46	125	73	49	58
CFSM	10.5	1.94	1.04	.85	.78	.63	1.20	7.01	18.9	13.3	9.44	27.7
IN.	12.10	2.17	1.20	.99	.86	.72	1.34	8.09	21.12	15.40	10.86	30.89
AC-FT	6970	1250	690	567	484	417	774	4660	12160	8870	6260	17790

CAL YR 1975 TOTAL 28679.0 MEAN 78.6 MAX 798 MIN 6.0 CFSM 7.28 IN 98.77 AC-FT 56880
WTR YR 1976 TOTAL 30694.0 MEAN 83.9 MAX 1250 MIN 6.0 CFSM 7.77 IN 105.71 AC-FT 60880

NOTE.--No gage-height record Nov. 3 to June 2.

15238860 TUTKA LAGOON CREEK NEAR HOMER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to September 1976 (discontinued).

INSTRUMENTATION.--Temperature recorder since Oct. 25, 1973.

REMARKS.--No record Apr. 1 to May 5 due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 11.5°C Aug. 13, 1974; minimum, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 9.5°C Aug. 3, 10, 22-24; minimum, 0.0°C on most days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
2	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
3	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
4	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
6	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
7	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
8	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
9	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
10	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
11	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
12	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
13	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
14	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
22	4.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
23	4.0	3.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
24	3.5	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
25	3.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
26	3.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
28	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
29	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	0.0	0.0	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	6.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0

15238860 TUTKA LAGOON CREEK NEAR HOMER--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	3.5	2.0	4.5	3.5	7.5	5.0	7.5	6.5
2			---	---	3.0	2.0	5.5	3.0	8.5	4.5	7.0	6.5
3			---	---	3.0	2.0	5.5	3.5	9.5	5.5	8.0	6.5
4			---	---	3.5	2.0	5.0	3.5	9.0	5.5	7.5	5.5
5			---	---	2.5	2.0	5.5	4.0	8.0	6.5	7.0	5.5
6			1.5	1.5	2.5	2.0	7.0	3.5	8.0	6.5	7.0	5.0
7			2.0	1.5	3.5	2.0	7.0	3.5	7.5	6.0	7.0	6.5
8			2.0	2.0	3.5	2.0	7.5	3.5	6.5	6.0	7.0	6.5
9			2.0	2.0	3.5	2.0	7.5	3.5	7.0	6.0	7.5	6.5
10			2.0	1.5	3.0	2.0	7.0	4.0	9.5	6.0	7.0	6.0
11			2.0	2.0	4.5	2.0	6.0	4.0	8.0	6.0	7.0	5.5
12			2.5	1.5	3.5	2.5	6.0	4.0	8.5	6.0	7.0	6.5
13			2.5	1.5	3.5	2.0	6.0	4.0	8.5	5.5	7.5	7.0
14			2.5	2.0	2.5	2.5	5.0	4.0	7.5	6.5	7.0	6.5
15			3.0	2.5	3.5	2.5	6.0	4.0	8.5	6.0	6.5	6.5
16			3.0	2.0	3.5	2.5	7.5	3.5	8.0	6.5	6.5	6.5
17			3.5	2.0	3.0	2.5	8.0	5.0	7.5	6.5	6.5	6.0
18			3.0	2.0	3.5	2.5	8.0	4.5	7.5	6.0	6.0	5.5
19			2.5	1.5	4.5	2.5	7.5	5.0	8.0	6.5	6.0	5.5
20			2.5	2.0	5.0	2.5	6.5	5.0	8.5	6.0	7.0	5.0
21			3.0	2.0	4.0	2.5	5.5	4.5	9.0	5.5	6.0	5.5
22			3.5	2.0	5.0	2.5	6.5	4.5	9.5	6.0	6.5	6.0
23			3.0	2.5	6.0	2.5	6.5	5.0	9.5	6.5	6.5	6.0
24			3.0	2.0	6.0	3.0	7.0	4.0	9.5	6.5	7.0	6.0
25			3.5	2.0	6.0	2.5	8.0	4.0	8.0	7.0	6.5	6.5
26			3.0	2.0	6.0	2.5	6.5	4.5	7.5	7.0	6.5	6.0
27			3.0	2.0	6.0	3.0	6.5	5.0	7.0	7.0	6.0	6.0
28			3.0	2.0	6.0	3.0	6.0	5.5	7.5	7.0	6.0	5.0
29			3.5	2.0	6.5	3.0	7.5	5.5	7.5	6.5	5.5	5.0
30			3.5	2.0	6.0	3.0	8.5	5.0	7.5	6.5	5.5	4.5
31			3.5	2.0	---	---	8.5	5.0	7.5	5.5	---	---
MONTH			3.5	1.5	6.5	2.0	8.5	3.0	9.5	4.5	8.0	4.5
YEAR	9.5	0.0										

15239000 BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°45'24", long 150°51'02", in NE¼SW¼ sec.8, T.5 S., R.9 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank about 800 ft (200 m) downstream from Bradley Lake outlet, 3.5 mi (5.6 km) upstream from unnamed tributary, and 26 mi (42 km) northeast of Homer.

DRAINAGE AREA.--54.0 mi^2 (139.9 km^2).

PERIOD OF RECORD.--July to August 1955, October 1957 to current year.

REVISED RECORDS.--WSP 2136: 1958, 1960 (M), 1961, 1963 (M), 1965.

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (320 m), from topographic map. July 13-22, 1955, nonrecording gage at site 1 mi (1.6 km) upstream and July 23 to Aug. 5, 1955, at site 3 mi (4.8 km) upstream at different datums.

REMARKS.--Records fair except those for period of no gage-height record, Nov. 27 to May 11, which are poor. Streamflow augmented by glaciers, which cover 36 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--19 years, 408 ft^3/s (11.55 m^3/s), 102.60 in/yr (2.606 mm/yr), 295,600 acre-ft/yr (364 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft^3/s (218 m^3/s) Oct. 14, 1969, gage height, 9.13 ft (2.783 m) from rating curve extended above 2,400 ft^3/s (68 m^3/s); minimum daily, about 16 ft^3/s (0.45 m^3/s) Mar. 26 to Apr. 25, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 3,210 ft^3/s (90.9 m^3/s) Sept. 22, gage height, 6.99 ft (2.131 m); minimum daily, about 24 ft^3/s (0.68 m^3/s) Mar. 17 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	160	70	44	38	30	24	105	391	1430	1130	890
2	802	150	65	44	38	28	24	110	450	1430	1080	849
3	661	140	65	42	36	28	24	110	489	1350	1020	759
4	580	130	60	42	36	28	24	115	511	1240	1010	653
5	508	120	60	40	36	28	24	120	597	1120	1020	563
6	451	120	55	40	34	28	24	130	687	1060	1110	504
7	394	110	55	38	34	26	24	140	705	1060	1330	578
8	342	110	55	38	34	26	24	150	740	1110	1410	910
9	304	110	50	38	34	26	24	160	753	1230	1420	958
10	305	100	50	38	34	26	24	180	727	1340	1260	886
11	285	100	50	36	32	26	26	200	705	1360	1140	761
12	321	100	50	36	32	26	26	210	759	1360	993	658
13	475	95	48	36	32	26	28	220	829	1290	913	704
14	817	95	48	36	32	26	28	220	828	1170	907	926
15	765	95	48	36	30	26	30	207	848	1050	847	1200
16	636	95	48	36	30	26	30	199	955	963	795	1150
17	533	95	48	36	30	24	30	193	1150	908	777	1400
18	473	95	50	36	30	24	35	189	1130	905	899	1830
19	400	150	50	36	30	24	35	190	1010	925	949	1430
20	340	190	50	36	30	24	40	196	899	956	917	1830
21	302	176	50	38	30	24	40	202	839	1000	877	2510
22	290	155	50	38	30	24	45	208	774	1060	890	3010
23	300	131	50	38	30	24	50	216	742	1040	896	2490
24	292	129	50	40	30	24	55	234	764	982	886	1870
25	276	127	50	40	30	24	60	263	825	939	921	2100
26	260	119	50	40	30	24	70	288	871	909	1370	2370
27	239	100	50	40	30	24	80	320	982	883	2580	1900
28	220	85	48	40	30	24	90	304	1030	964	2360	1400
29	204	80	46	40	30	24	95	311	1130	1030	1750	1070
30	190	75	46	40	---	24	100	325	1280	1110	1270	885
31	170	---	46	38	---	24	---	368	---	1140	1010	---
TOTAL	13145	3537	1611	1196	932	790	1233	6383	24400	34314	35737	39044
MEAN	424	118	52.0	38.6	32.1	25.5	41.1	206	813	1107	1153	1301
MAX	1010	190	70	44	38	30	100	368	1280	1430	2580	3010
MIN	170	75	46	36	30	24	24	105	391	883	777	504
CFSM	7.85	2.19	.96	.71	.59	.47	.76	3.81	15.1	20.5	21.4	24.1
IN.	9.06	2.44	1.11	.82	.64	.54	.85	4.40	16.81	23.64	24.62	26.90
AC-FT	26070	7020	3200	2370	1850	1570	2450	12660	48400	68060	70880	77440

CAL YR 1975 TOTAL 150615 MEAN 413 MAX 2000 MIN 30 CFSM 7.65 IN 103.76 AC-FT 298700
WTR YR 1976 TOTAL 162322 MEAN 444 MAX 3010 MIN 24 CFSM 8.22 IN 111.82 AC-FT 322000

15241600 NINILCHIK RIVER AT NINILCHIK

LOCATION.--Lat 60°02'56", long 151°39'48", in NE¼ sec.34, T.1 S., R.14 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on downstream side of bridge at Ninilchik and 0.9 mi (1.4 km) upstream from mouth.

DRAINAGE AREA.--131 mi^2 (339 km^2).

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Oct. 1, 1965, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records fair except those for Oct. 30 to May 6, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--13 years, 103 ft^3/s (2.917 m^3/s), 10.68 in/yr (271 mm/yr), 74,620 acre-ft/yr (92.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) Apr. 24, 1974, gage height, 6.04 ft (1.841 m), from graph based on gage readings; maximum gage height observed, 8.69 ft (2.649 m) Apr. 14, 1969, backwater from ice; minimum discharge observed, 30 ft^3/s (0.85 m^3/s) July 20, 1966, gage height, 3.64 ft (1.109 m).

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 8.64 ft (2.633 m) Apr. 30, backwater from ice, discharge not determined; minimum daily discharge, about 50 ft^3/s (1.4 m^3/s) Jan. 14-29 and Feb. 17-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	68	56	52	52	52	54	900	86	65	68	62
2	117	66	56	52	52	52	54	750	84	68	63	57
3	123	64	56	52	52	52	54	650	75	67	60	56
4	138	62	56	52	52	52	54	550	68	70	59	56
5	117	60	56	52	52	52	56	470	84	67	57	54
6	119	58	56	52	52	52	56	400	131	63	57	54
7	111	58	56	52	52	52	56	282	125	62	56	59
8	99	58	54	52	52	52	56	300	107	62	63	117
9	91	58	54	52	52	52	56	234	89	60	86	123
10	121	56	54	52	52	52	58	208	87	59	89	97
11	255	56	54	52	52	52	58	237	87	60	77	89
12	234	56	54	52	52	52	58	243	84	60	70	87
13	215	56	52	52	52	52	60	249	78	60	63	82
14	258	56	52	50	52	52	60	237	77	59	71	77
15	243	56	52	50	52	52	62	213	70	59	87	109
16	202	56	52	50	52	52	62	150	73	56	84	131
17	157	56	52	50	50	52	64	138	71	57	86	125
18	123	56	52	50	50	52	68	133	70	56	99	121
19	117	56	52	50	50	52	70	113	78	54	107	131
20	113	56	52	50	50	52	75	115	73	54	87	240
21	103	56	52	50	50	54	80	117	71	53	78	374
22	93	56	52	50	50	54	85	127	70	71	75	297
23	157	56	52	50	50	54	100	121	68	95	70	273
24	141	56	52	50	50	54	150	138	67	129	63	205
25	133	56	52	50	50	54	200	127	65	150	62	177
26	105	56	52	50	50	54	250	129	65	80	62	150
27	86	56	52	50	50	54	350	133	63	71	67	121
28	82	56	52	50	50	54	500	117	63	73	59	221
29	82	56	52	50	50	54	650	115	62	80	63	223
30	80	56	52	52	---	54	1000	113	62	78	62	182
31	75	---	52	52	---	54	---	103	---	71	60	---
TOTAL	4183	1728	1650	1580	1482	1634	4556	7912	2353	2169	2210	4150
MEAN	135	57.6	53.2	51.0	51.1	52.7	152	255	78.4	70.0	71.3	138
MAX	258	68	56	52	52	54	1000	900	131	150	107	374
MIN	75	56	52	50	50	52	54	103	62	53	56	54
CFSM	1.03	.44	.41	.39	.39	.40	1.16	1.95	.60	.53	.54	1.05
IN.	1.19	.49	.47	.45	.42	.46	1.29	2.25	.67	.62	.63	1.18
AC-FT	8300	3430	3270	3130	2940	3240	9040	15690	4670	4300	4380	8230

CAL YR 1975 TOTAL 40451 MEAN 111 MAX 1100 MIN 45 CFSM .85 IN 11.49 AC-FT 80230
WTR YR 1976 TOTAL 35607 MEAN 97.3 MAX 1000 MIN 50 CFSM .74 IN 10.11 AC-FT 70630

NOTE.--No gage-height record Nov. 2 to April 23.

15248000 TRAIL RIVER NEAR LAWING

LOCATION.--Lat 60°26'01", long 149°22'19", in SW¼ sec.13, T.4 N., R.1 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, near center of stream on downstream end of pier at bridge site on old Seward-Anchorage Highway, 0.2 mi (0.3 km) upstream from Falls Creek, 0.2 mi (0.3 km) downstream from Lower Trail Lake, 1.9 mi (3.1 km) upstream from mouth, and 2.1 mi (3.4 km) north of Lawing.

DRAINAGE AREA.--181 mi^2 (469 km^2).

PERIOD OF RECORD.--May 1947 to Sept. 1974 (discharge); Oct. 1974 to current year (seasonal gage heights only).

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (140 m), from topographic map. Prior to Sept. 13, 1952, nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.93 ft (3.636 m) Sept. 18, 1967; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.73 ft (3.271 m) Sept. 22; minimum gage height not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	3.39				2.80	4.45	5.45	8.12	7.65	6.91
2		---	3.28				2.80	4.60	5.66	8.04	7.73	6.64
3		---	3.23				2.86	4.92	5.91	7.87	7.54	6.41
4		---	3.23				2.89	5.30	6.10	7.65	7.44	6.24
5		---	3.19				2.91	5.53	6.26	7.40	7.46	5.95
6		---	---				2.90	5.58	6.42	7.17	7.44	5.74
7		---	---				2.88	5.50	6.42	7.18	7.41	5.60
8		---	---				2.88	5.35	6.40	7.34	7.42	6.93
9		---	---				2.87	5.25	6.45	7.54	7.39	7.26
10		---	---				2.85	5.19	6.46	7.70	7.32	6.92
11		---	---				2.84	5.14	6.48	7.69	7.26	6.58
12		---	---				2.84	5.11	6.69	7.58	7.11	6.30
13		---	---				2.86	5.07	7.05	7.49	6.89	6.34
14		---	---				2.86	5.04	7.21	7.40	6.87	7.08
15		---	---				2.84	4.98	7.28	7.29	6.83	7.53
16		---	---				2.83	4.90	7.48	7.16	6.74	7.30
17		---	---				2.81	4.86	7.70	7.11	6.64	7.00
18		---	---				2.84	4.88	7.69	7.09	6.62	7.50
19		3.59	---				2.90	4.93	7.50	7.21	6.71	7.82
20		3.62	---				2.89	4.94	7.24	7.40	6.66	7.75
21		3.67	---				2.90	4.93	7.03	7.50	6.57	10.39
22		3.64	---				2.93	4.93	6.87	7.50	6.58	10.66
23		3.63	---				2.97	4.95	6.82	7.37	6.60	10.00
24		3.60	---				3.03	4.98	6.91	7.23	6.63	---
25		3.57	---				3.12	4.98	7.09	7.11	6.64	---
26		3.54	---				3.28	4.97	7.34	7.02	6.99	---
27		3.52	---				3.51	4.99	7.56	7.01	8.22	---
28		3.48	---				3.75	5.03	7.78	7.03	8.55	---
29		3.47	---				4.01	5.09	7.88	7.02	8.20	---
30		3.43	---				4.23	5.17	8.00	7.20	7.72	---
31		---	---				---	5.30	---	7.45	7.26	---
MEAN		---	---				3.03	5.06	6.90	7.38	7.20	---
MAX		---	---				4.23	5.58	8.00	8.12	8.55	---
MIN		---	---				2.80	4.45	5.45	7.01	6.57	---

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29'34", long 149°48'28", in SE¼ sec.28, T.5 N., R.3 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, Chugach National Forest, near center of span on upstream side of bridge on Sterling Highway, 0.9 mi (1.4 km) east (upstream) of Cooper Landing, Bean Creek, and Kenai Lake outlet.

DRAINAGE AREA.--634 mi^2 (1,642 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: 1964 (M).

GAGE.--Nonrecording gage. Altitude of gage is 430 ft (131 m), from topographic map. See WSP 2136 for history of changes prior to Aug. 28, 1965. Aug. 28, 1965 to Jan. 21, 1974 at site 30 ft (9 m) downstream at present datum.

REMARKS.--Records good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake powerplant began May 1961.

COOPERATION.--Records of diversion furnished by Chugach Electric Association.

AVERAGE DISCHARGE.--29 years, 2,678 ft^3/s (75.84 m^3/s), 57.36 in/yr (1,457 mm/yr), 1,940,000 acre-ft/yr (2.39 km^3/yr), adjusted to exclude diversion from Cooper Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft^3/s (654 m^3/s) Sept. 21, 1974, gage height, 17.18 ft (5.236 m), result of release of stored water from glacier-dammed lake at head of unnamed glacier in the Snow River basin; no flow Mar. 27, 28, 1964, caused by earthquake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Sept. 23, gage height, 14.75 ft (4.496 m); minimum, 335 ft^3/s (9.49 m^3/s) Apr. 5, 6, gage height, 5.00 ft (1.524 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5810	1590	770	620	464	353	338	512	2550	7430	6070	6360
2	5360	1530	750	620	448	356	338	552	2730	7770	6200	5830
3	4950	1480	730	600	444	365	341	600	2860	8010	6510	5430
4	4700	1420	730	600	452	365	338	675	2990	7410	6360	5000
5	4400	1380	715	600	464	359	335	750	3190	6970	6490	4830
6	4140	1320	715	592	456	359	335	845	3350	6750	6390	4590
7	4050	1280	695	584	464	350	338	946	3520	6430	6590	4300
8	3620	1240	680	572	460	350	344	1050	3650	6490	6730	3980
9	3440	1200	665	572	452	344	338	1100	3820	6590	6690	5430
10	3350	1160	645	560	452	347	341	1170	3960	6750	6550	5260
11	3190	1150	640	552	448	347	341	1200	4020	6850	6530	5080
12	2970	1120	632	548	444	353	341	1260	4280	6950	6450	4750
13	2910	1070	620	544	437	353	347	1350	4570	6850	6300	4750
14	3090	1060	628	544	434	356	347	1410	4880	6690	6100	5000
15	3220	1040	628	548	425	344	344	1470	5140	6530	5700	5520
16	3300	1030	620	552	422	344	344	1520	5480	6260	5470	6360
17	3400	1010	608	548	413	344	347	1560	5790	6160	5430	7050
18	3400	980	600	544	410	347	344	1590	6010	6070	5080	7580
19	3300	976	600	540	404	344	347	1620	5980	6010	4880	8450
20	3090	976	580	532	395	341	350	1680	5880	6070	5100	9000
21	2870	970	600	528	395	341	353	1750	5790	6160	4920	12100
22	2680	940	620	520	392	344	353	1800	5480	6360	4880	14800
23	2560	935	640	512	386	341	356	1840	5340	6260	4810	15700
24	2490	920	660	504	380	344	356	1890	5260	6160	4670	14600
25	2420	910	660	500	371	341	350	1960	5430	5990	4750	14300
26	2380	895	660	500	365	344	350	1990	5630	5830	5270	13000
27	2350	880	640	500	368	344	380	2010	5840	5750	6090	12100
28	2150	860	640	496	362	341	407	2110	6200	5630	7050	11100
29	1940	820	640	484	356	341	444	2170	6650	5570	7470	10200
30	1810	790	620	476	---	341	464	2400	7050	5790	7010	8910
31	1690	---	620	468	---	338	---	2520	---	5830	6650	---
TOTAL	101030	32932	20251	16860	12163	10781	10651	45300	143320	200370	185190	241360
MEAN	3259	1098	653	544	419	348	355	1461	4777	6464	5974	8045
MAX	5810	1590	770	620	464	365	464	2520	7050	8010	7470	15700
MIN	1690	790	580	468	356	338	335	512	2550	5570	4670	3980
AC-FT	200400	65320	40170	33440	24130	21380	21130	89850	284300	397400	367300	478700

CAL YR 1975 TOTAL 971247 MEAN 2661 MAX 9630 MIN 400 AC-FT 1926000
WTR YR 1976 TOTAL 1020208 MEAN 2787 MAX 15700 MIN 335 AC-FT 2024000

ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LANDING

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3,183	993	532	474	327	298	293	1413	4,701	6,399	5,910	7,993
CFSM	5.02	1.57	.84	.75	.52	.47	.46	2.23	7.41	10.09	9.32	12.61
IN	5.79	1.75	.97	.86	.56	.54	.52	2.57	8.27	11.64	10.75	14.07
AC-FT	195,700	59,100	32,700	29,160	18,830	18,310	17,460	86,860	279,700	393,500	363,400	475,600

CAL YR 1975 MEAN 2,574 CFSM 4.06 IN 55.11 AC-FT 1,864,000
WTR YR 1976 MEAN 2,714 CFSM 4.28 IN 58.27 AC-FT 1,970,000

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-50, 1950-53, 1955-60, 1966-74, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB								
24...	1230	364	75	6.7	.5	31	0	9.9

15266300 KENAI RIVER AT SOLDOTNA

LOCATION.--Lat 60°28'39", long 151°04'46", Kenai Peninsula Borough, Hydrologic Unit 19050002, near center of span on downstream side of bridge on Sterling Highway, 1.0 mi (1.6 km) southwest of Soldotna.

DRAINAGE AREA.--2,010 mi^2 (5,210 km^2).

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Nonrecording gage. Datum of gage is 35.34 ft (10.772 m) above mean sea level.

REMARKS.--Records fair except those for Nov. 2 to Apr. 25, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 5,341 ft^3/s (151.3 m^3/s), 36.08 in/yr (916 mm/yr), 3,870,000 acre-ft/yr (4.77 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) Oct. 15, 1969, gage height, 12.20 ft (3.719 m); maximum gage height, 22.62 ft (6.895 m) Jan. 18, 1969, backwater from ice; minimum daily discharge, 770 ft^3/s (21.8 m^3/s) Apr. 1-4, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,700 ft^3/s (643 m^3/s) Sept. 26, gage height, 11.45 ft (3.490 m); minimum daily, about 800 ft^3/s (23 m^3/s) Jan. 6-15, Jan. 24 to Feb. 7, and Feb. 21 to Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8980	2600	1400	900	800	800	800	1770	3120	11200	13200	13600
2	8900	2500	1300	850	800	800	800	1640	3350	11700	13300	13300
3	8500	2400	1300	850	800	800	800	1710	3620	12000	13500	12900
4	8260	2300	1300	850	800	800	800	1660	3820	12100	13600	12300
5	7900	2200	1300	850	800	800	800	1640	3920	12200	13700	11500
6	7510	2200	1200	800	800	800	800	1620	4380	12200	14000	10800
7	7360	2100	1200	800	800	800	820	1610	4650	12200	14400	10300
8	7000	2100	1200	800	850	800	820	1610	4750	12300	14700	10900
9	5590	2000	1200	800	850	800	820	1660	4880	12300	14700	10600
10	5800	2000	1100	800	850	800	820	1660	5020	12600	14700	10300
11	5920	1900	1100	800	850	800	820	1700	5230	12700	14800	10100
12	6010	1900	1100	800	850	800	820	1840	5710	12900	14800	9660
13	5650	1800	1100	800	850	800	840	1960	6340	12900	14200	9220
14	5470	1800	1100	800	850	800	840	2000	6730	12900	14200	9100
15	5380	1700	1200	800	850	800	840	2020	6940	12800	14100	9420
16	5440	1700	1200	850	850	800	840	2040	7210	12700	13800	9300
17	5350	1700	1200	850	850	800	860	2060	7990	12700	13500	9420
18	5200	1600	1200	850	850	800	880	2130	8080	12800	13400	10800
19	4820	1600	1100	850	850	800	900	2180	8140	12800	13200	11100
20	4780	1600	1100	850	850	800	950	2190	8320	12800	13200	11500
21	4700	1580	1100	850	800	800	1000	2220	8470	12800	13000	14300
22	4650	1500	1100	850	800	800	1100	2250	8700	13100	12900	16700
23	4500	1500	1100	850	800	800	1200	2320	8660	13100	12700	19600
24	4400	1500	1100	800	800	800	1300	2420	8780	13100	12600	19800
25	4300	1500	1100	800	800	800	1300	2500	8900	12800	12500	20900
26	4050	1500	1000	800	800	800	1310	2560	9260	12500	12500	22700
27	3650	1400	1000	800	800	800	1340	2640	9540	12500	13100	22100
28	3550	1400	950	800	800	800	1540	2720	10000	12300	13600	21500
29	3380	1400	950	800	800	800	1610	2800	10300	12500	13700	21100
30	3080	1400	900	800	---	800	1680	2880	10700	12900	13800	19800
31	2860	---	900	800	---	800	---	2980	---	13100	13700	---
TOTAL	172940	54380	35100	25500	23850	24800	30050	64990	205510	384500	423100	414620
MEAN	5579	1813	1132	823	822	800	1002	2096	6850	12560	13650	13820
MAX	8980	2600	1400	900	850	800	1680	2980	10700	13100	14800	22700
MIN	2860	1400	900	800	800	800	800	1610	3120	11200	12500	9100
CFSM	2.78	.90	.56	.41	.41	.40	.50	1.04	3.41	6.25	6.79	6.88
IN.	3.20	1.01	.65	.47	.44	.46	.56	1.20	3.80	7.21	7.83	7.67
AC-FT	343000	107900	69620	50580	47310	49190	59600	128900	407600	772600	839200	822400

CAL YR 1975 TOTAL 1784690 MEAN 4890 MAX 17200 MIN 900 CFSM 2.43 IN 33.03 AC-FT 3540000
WTR YR 1976 TOTAL 1864340 MEAN 5094 MAX 22700 MIN 800 CFSM 2.53 IN 34.50 AC-FT 3698000

NOTE.--No gage-height record Dec. 1 to April 25.

15266500 BEAVER CREEK NEAR KENAI

LOCATION.--Lat 60°33'50", long 151°07'03", in SE¼ sec.36, T.6 N., R.11 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank 75 ft (23 m) downstream from culvert on Kenai-Soldotna Road, 2.0 mi (3.2 km) upstream from mouth, and 4.5 mi (7.2 km) east of Kenai. Prior to Oct. 1, 1975, at site 140 ft (43 m) upstream.

DRAINAGE AREA.--51 mi^2 (132 km^2), approximately.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder and staff gage. Altitude of gage is 48 ft (15 m), from topographic map. Prior to Oct. 1, 1975, at site 140 ft (43 m) upstream at different datum.

REMARKS.--Records poor for period of no gage-height record prior to Apr. 26 and good thereafter. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 25.8 ft^3/s (0.731 m^3/s), 6.87 in/yr (174 mm/yr), 18,690 acre-ft/yr (23.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 598 ft^3/s (16.9 m^3/s) May 8, 1972, gage height, 10.55 ft (3.216 m), site and datum then in use; minimum, 8.2 ft^3/s (0.23 m^3/s) Oct. 23, 1969, temporary ice storage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 131 ft^3/s (3.71 m^3/s) Apr. 29, gage height, 1.98 ft (0.604 m), from graph based on gage readings; minimum daily, about 11 ft^3/s (0.31 m^3/s) Jan. 6 to Feb. 29, Mar. 12-20, 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	16	12	11	12	14	86	22	16	14	14
2	22	18	16	12	11	12	14	71	22	17	13	14
3	24	18	16	12	11	12	14	60	22	17	13	13
4	28	18	16	12	11	12	15	54	20	17	13	13
5	26	18	16	12	11	12	15	50	22	16	13	13
6	26	18	15	11	11	12	15	44	29	16	13	13
7	24	18	15	11	11	12	15	41	26	15	14	13
8	22	18	15	11	11	12	15	39	26	15	15	16
9	20	18	15	11	11	12	15	37	24	15	17	17
10	24	18	15	11	11	12	15	36	24	15	17	16
11	32	17	15	11	11	12	16	34	22	15	16	16
12	32	17	15	11	11	11	16	34	22	15	15	16
13	30	17	15	11	11	11	16	40	22	15	15	15
14	32	17	14	11	11	11	16	41	21	15	14	15
15	32	17	14	11	11	11	16	40	21	14	14	17
16	30	17	14	11	11	11	17	37	21	15	14	20
17	26	17	14	11	11	11	19	34	22	15	15	19
18	24	17	14	11	11	11	22	33	21	14	15	20
19	22	17	14	11	11	11	26	31	20	14	16	22
20	20	17	14	11	11	11	30	29	19	15	15	30
21	20	17	13	11	11	12	36	28	21	14	15	47
22	20	16	13	11	11	13	46	28	19	15	14	45
23	28	16	13	11	11	13	60	26	18	16	14	41
24	26	16	13	11	11	12	80	28	17	16	13	34
25	24	16	13	11	11	11	100	26	18	16	13	29
26	22	16	13	11	11	11	114	26	18	15	13	26
27	20	16	13	11	11	12	114	24	18	15	13	23
28	20	16	13	11	11	13	126	24	17	14	13	33
29	19	16	13	11	11	13	128	24	16	14	13	37
30	19	16	12	11	---	12	110	23	15	14	13	34
31	19	---	12	11	---	13	---	22	---	14	13	---
TOTAL	753	512	439	346	319	366	1255	1150	625	469	438	681
MEAN	24.3	17.1	14.2	11.2	11.0	11.8	41.8	37.1	20.8	15.1	14.1	22.7
MAX	32	19	16	12	11	13	128	86	29	17	17	47
MIN	19	16	12	11	11	11	14	22	15	14	13	13
CFSM	.48	.34	.28	.22	.22	.23	.82	.73	.41	.30	.28	.45
IN.	.55	.37	.32	.25	.23	.27	.92	.84	.46	.34	.32	.50
AC-FT	1490	1020	871	686	633	726	2490	2280	1240	930	869	1350

CAL YR 1975 TOTAL 10120 MEAN 27.7 MAX 268 MIN 11 CFSM .54 IN 7.38 AC-FT 20070
WTR YR 1976 TOTAL 7353 MEAN 20.1 MAX 128 MIN 11 CFSM .39 IN 5.36 AC-FT 14580

15267900 RESURRECTION CREEK NEAR HOPE

LOCATION.--Lat 60°53'40", long 149°38'13", Kenai Peninsula Borough, Hydrologic Unit 19050002, Chugach National Forest, on right bank 2.1 mi (3.4 km) upstream from mouth on south shore of Turnagain and 1.8 mi (2.9 km) south of Hope.

DRAINAGE AREA.--149 mi^2 (386 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

PEMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 244 ft^3/s (6.910 m^3/s), 22.24 in/yr (565 mm/yr), 176,800 acre-ft/yr (218 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s (76.5 m^3/s) Oct. 6, 1969, gage height, 8.40 ft (2.560 m); maximum gage height, 8.72 ft (2.658 m) Sept. 22, 1976; minimum daily discharge, 46 ft^3/s (1.30 m^3/s) Mar. 26 to Apr. 13, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (23 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)	Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
June 16	2300	984	27.9	7.59	2.313	Sept. 22	0300	*2,110	59.8	*8.72	2.658
June 27	2300	816	23.1	7.35	2.240	Sept. 25	1200	1,190	33.7	8.26	2.518

Minimum daily discharge, about 47 ft^3/s (1.33 m^3/s) Mar. 27 to Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	66	64	49	58	52	47	155	387	742	302	202
2	255	64	62	48	56	52	47	187	432	863	295	196
3	249	62	60	48	56	52	47	237	442	595	281	188
4	243	60	60	48	54	54	47	218	454	538	275	182
5	234	60	58	48	54	54	47	208	513	508	271	175
6	225	60	56	48	52	54	47	164	589	510	267	168
7	216	62	56	48	52	54	47	160	498	525	261	195
8	207	62	54	48	50	54	50	173	488	540	256	226
9	192	54	52	48	50	54	54	169	514	580	247	206
10	190	66	52	48	50	52	56	174	494	580	236	197
11	194	68	50	48	50	52	60	193	620	560	231	206
12	208	70	50	48	49	52	60	204	720	520	225	196
13	192	72	50	48	49	52	60	199	740	480	216	196
14	194	72	50	48	49	52	64	173	720	450	215	212
15	194	72	50	48	49	52	62	169	780	420	214	231
16	197	74	50	48	49	52	62	170	910	450	213	218
17	185	74	50	48	49	52	62	198	858	480	203	236
18	180	74	50	48	49	50	68	209	726	460	204	404
19	168	74	49	48	49	50	72	178	648	450	225	361
20	156	72	48	48	49	50	76	191	599	430	209	661
21	170	72	48	48	49	50	86	219	577	400	196	1890
22	163	72	49	48	49	50	80	244	549	430	187	1550
23	164	72	50	48	49	50	84	261	538	410	180	1040
24	158	72	52	48	48	50	84	257	577	390	176	832
25	146	70	52	48	48	50	80	271	631	400	174	1030
26	123	70	54	49	49	50	100	279	687	380	286	876
27	109	70	56	50	50	47	180	273	744	370	317	760
28	100	68	54	52	52	47	160	259	746	350	260	849
29	90	68	52	56	52	47	140	300	740	310	234	711
30	80	66	50	60	---	47	148	314	739	330	220	641
31	70	---	50	60	---	47	---	336	---	311	211	---
TOTAL	5515	2048	1638	1528	1469	1581	2277	6742	18660	14562	7287	15035
MEAN	178	68.3	52.8	49.3	50.7	51.0	75.9	217	622	470	235	501
MAX	263	74	64	60	58	54	180	336	910	742	317	1890
MIN	70	60	48	48	48	47	47	155	387	310	174	168
CFSM	1.19	.46	.35	.33	.34	.34	.51	1.46	4.17	3.15	1.58	3.36
IN.	1.38	.51	.41	.38	.37	.39	.57	1.68	4.66	3.64	1.82	3.75
AC-FT	10940	4060	3250	3030	2910	3140	4520	13370	37010	28880	14450	29820

CAL YR 1975 TOTAL 85587 MEAN 234 MAX 1110 MIN 46 CFSM 1.57 IN 21.37 AC-FT 169800
WTR YR 1976 TOTAL 78342 MEAN 214 MAX 1890 MIN 47 CFSM 1.44 IN 19.56 AC-FT 155400

NOTE.--No gage-height record Oct. 30 to April 29.

15272550 GLACIER CREEK AT GIRDWOOD

LOCATION.--Lat 60°56'29", long 149°09'44", in SE¼ sec.19, T.10 N., R.2 E., Municipality of Anchorage, Hydrologic Unit 19050002, on left downstream wingwall of railroad bridge, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) southeast of Girdwood.

DRAINAGE AREA.--62.0 mi^2 (160.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.99 ft (5.788 m) above mean sea level (levels by Corps of Engineers, post-earthquake datum of October 1964). Prior to July 23, 1973, on right downstream wingwall.

REMARKS.--Records fair except those for period of no gage-height record, June 24 to July 29, which are poor.

AVERAGE DISCHARGE.--11 years, 254 ft^3/s (7.193 m^3/s), 55.63 in/yr (1,413 mm/yr), 184,000 acre-ft/yr (227 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,710 ft^3/s (218 m^3/s) Sept. 18, 1967, gage height, 7.90 ft (2.408 m) from floodmarks, from rating curve extended above 3,800 ft^3/s (110 m^3/s); maximum gage height, 8.34 ft (2.542 m) Oct. 6, 1969, from outside floodmark; minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Mar. 23, 24, and Mar. 28 to Apr. 26, 1972, Mar. 21, 1973, and Feb. 23-25 and Mar. 16-22, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft^3/s (42 m^3/s) and maximum (*):

Date	Time about	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Sept. 21	0200	a*4,720	134	b*6.33	1.929	Sept. 25	1300	1,570	44.5	4.00	1.219

a From rating curve extended above 2,100ft^3/s (59 m^3/s).
b From floodmarks.

Minimum daily discharge, about 19 ft^3/s (0.54 m^3/s) Feb. 16-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	90	50	45	36	20	25	345	430	840	574	330
2	330	70	46	41	32	22	25	355	454	780	544	321
3	312	50	40	41	31	22	25	436	448	760	478	303
4	312	45	38	43	31	22	25	390	436	780	496	294
5	298	40	36	40	29	21	27	385	460	740	484	281
6	285	38	36	35	28	21	26	375	466	700	454	285
7	277	36	34	33	28	23	25	321	405	740	460	425
8	269	36	34	31	27	21	25	294	400	760	460	538
9	257	37	34	29	26	21	28	265	472	840	425	430
10	265	38	32	28	25	20	32	265	466	850	405	370
11	285	40	32	27	23	21	32	290	556	800	390	340
12	303	42	32	26	22	21	33	265	715	700	340	321
13	285	44	30	25	21	21	33	261	757	660	355	340
14	355	47	30	25	20	20	32	237	743	640	375	550
15	335	50	30	24	20	20	32	229	771	620	330	514
16	321	52	32	24	19	21	32	229	813	660	326	415
17	290	58	35	24	19	21	33	249	978	720	330	555
18	277	60	34	23	19	21	36	245	652	680	370	862
19	261	66	32	23	19	20	39	257	586	660	330	701
20	249	76	32	24	19	20	42	265	532	620	298	1530
21	241	72	32	26	19	20	44	261	550	600	321	2620
22	237	68	35	27	19	20	43	277	520	660	350	2320
23	237	66	40	26	19	21	45	285	532	620	350	1020
24	237	66	40	26	19	21	45	269	600	600	345	902
25	225	64	50	25	19	22	42	273	700	620	345	1220
26	217	64	60	26	19	22	79	277	900	600	520	944
27	202	62	52	28	20	22	594	298	840	580	574	696
28	198	60	49	26	20	22	303	308	900	540	472	930
29	180	58	48	28	20	21	261	326	960	540	405	618
30	150	54	45	49	---	21	281	350	930	538	370	440
31	120	---	45	42	---	22	---	390	---	544	350	---
TOTAL	8165	1649	1195	940	668	653	2344	9272	18972	20992	12626	21415
MEAN	263	55.0	38.5	30.3	23.0	21.1	78.1	299	632	677	407	714
MAX	355	90	60	49	36	23	594	436	978	850	574	2620
MIN	120	36	30	23	19	20	25	229	400	538	298	281
CFSM	4.24	.89	.62	.49	.37	.34	1.26	4.82	10.2	10.9	6.56	11.5
IN.	4.90	.99	.72	.56	.40	.39	1.41	5.56	11.38	12.59	7.58	12.85
AC-FT	16200	3270	2370	1860	1320	1300	4650	18390	37630	41640	25040	42480

CAL YR 1975 TOTAL 81301 MEAN 223 MAX 1000 MIN 19 CFSM 3.60 IN 48.78 AC-FT 161300
WTR YR 1976 TOTAL 98891 MEAN 270 MAX 2620 MIN 19 CFSM 4.35 IN 59.33 AC-FT 196200

1527550 GLACIER CREEK AT GIRDWOOD--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1964-74, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB								
24...	1710	19	135	7.2	.0	63	0	6.4

15273900 SOUTH FORK CAMPBELL CREEK AT CANYON MOUTH NEAR ANCHORAGE

LOCATION.--Lat 61°08'52", long 149°43'12", in NE¼ sec. 12, T.12 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank, 1.9 mi (3.1 km) upstream from ford on Campbell Airstrip road crossing, and 7.5 mi (12.1 km) southeast of Anchorage Post Office.

DRAINAGE AREA.--25.2 mi² (65.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (158 m), from topographic map.

REMARKS.--Records good except those for Oct. 27 to June 9, which are poor.

AVERAGE DISCHARGE.--10 years, 38.4 ft³/s (1.087 m³/s), 20.70 in/yr (526 mm/yr), 27,820 acre-ft/yr (34.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 342 ft³/s (9.69 m³/s) Sept. 21, 1976, gage height, 3.89 ft (1.186 m), maximum gage height, 8.0 ft (2.44 m) winter 1970-71, backwater from ice; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Feb. 5, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 160 ft³/s (4.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 13	2200	170	4.81	3.32	1.012	Sept. 21	0300	*342	9.69	*3.89	1.186

Minimum daily discharge, about 11 ft³/s (0.31 m³/s) Mar. 11 to Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	26	22	18	15	12	11	16	46	127	45	31
2	69	24	18	16	15	12	11	17	49	119	45	31
3	67	44	16	15	16	12	11	18	54	100	43	30
4	64	45	15	15	18	12	11	18	60	90	42	30
5	64	45	15	14	17	12	11	17	68	83	41	30
6	61	45	15	14	16	12	11	16	62	82	41	29
7	59	45	15	13	15	12	11	15	68	84	41	29
8	58	46	15	13	15	12	11	15	74	85	43	30
9	57	48	15	13	15	12	11	15	87	87	40	35
10	53	46	15	13	15	12	11	16	104	86	38	32
11	67	46	15	13	15	11	11	17	121	84	38	34
12	75	47	15	13	14	11	11	18	135	77	37	31
13	63	48	15	13	14	11	11	17	146	70	36	30
14	59	48	15	13	14	11	11	16	148	65	35	31
15	56	49	16	14	14	11	11	16	146	60	35	31
16	54	50	16	15	14	11	11	16	141	57	38	31
17	51	50	17	15	13	11	11	17	117	76	38	30
18	47	52	18	15	13	11	11	19	98	68	38	59
19	47	53	19	15	13	11	11	19	86	63	42	48
20	48	54	20	16	13	11	11	18	85	63	41	105
21	46	53	20	16	13	11	11	20	89	62	39	257
22	46	51	20	16	12	11	11	23	87	65	36	192
23	46	50	20	16	12	11	11	28	85	62	35	124
24	45	49	21	16	12	11	13	27	90	57	34	99
25	43	48	21	16	12	11	12	28	105	53	34	115
26	42	47	21	16	12	11	13	29	114	50	34	99
27	40	45	20	16	12	11	14	31	125	47	35	83
28	39	40	20	16	12	11	15	33	120	48	33	104
29	38	32	20	16	12	11	15	35	118	50	32	82
30	35	27	20	16	---	11	16	38	117	56	32	74
31	31	---	19	16	---	11	---	41	---	48	31	---
TOTAL	1643	1353	549	462	403	351	351	669	2945	2224	1172	1966
MEAN	53.0	45.1	17.7	14.9	13.9	11.3	11.7	21.6	98.2	71.7	37.8	65.5
MAX	75	54	22	18	18	12	16	41	148	127	45	257
MIN	31	24	15	13	12	11	11	15	46	47	31	29
CFSM	2.10	1.79	.70	.59	.55	.45	.46	.86	3.90	2.85	1.50	2.60
IN.	2.43	2.00	.81	.68	.59	.52	.52	.99	4.35	3.28	1.73	2.90
AC-FT	3260	2680	1090	916	799	696	696	1330	5840	4410	2320	3900

CAL YR 1975 TOTAL 15888 MEAN 43.5 MAX 218 MIN 10 CFSM 1.73 IN 23.45 AC-FT 31510
WTR YR 1976 TOTAL 14088 MEAN 38.5 MAX 257 MIN 11 CFSM 1.53 IN 20.80 AC-FT 27940

NOTE.--No gage-height record Nov. 4 to June 9.

15273900 SOUTH FORK CAMPBELL CREEK AT CANYON MOUTH NEAR ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP										
22...	1300	193	41	7.1	5.5	12.4	21	6	18	2.3

15274300 NORTH FORK CAMPBELL CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°10'10", long 149°45'43", in SW¼ sec.35, T.13 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank 40 ft (12 m) upstream from Campbell Airstrip road, 2.5 mi (4.0 km) upstream from confluence with South Fork, and 5.5 mi (8.8 km) southeast of Anchorage Post Office.

DRAINAGE AREA.--13.4 mi² (34.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1967-74. June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (91 m), from topographic map. May 7, 1967 to June 5, 1974, crest-stage gage at site 25 ft (7.6 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, Oct. 25 to Apr. 29, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 ft³/s (3.03 m³/s) Aug. 9, 1971, gage height, 12.18 ft (3.712 m); minimum daily, about 2.0 ft³/s (0.057 m³/s) Feb. 2-22 and Apr. 1-15, 1975 and Feb. 10-29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft³/s (2.18 m³/s) Sept. 21, gage height, 11.94 ft (3.639 m); minimum daily, about 2.0 ft³/s (0.057 m³/s) Feb. 10-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	7.0	7.0	6.0	4.0	3.0	3.0	9.4	6.7	42	19	11
2	26	7.0	7.0	5.0	4.0	4.0	3.0	9.4	7.5	42	19	10
3	25	7.0	7.0	5.0	4.0	4.0	4.0	8.0	7.5	34	18	10
4	25	7.0	7.0	5.0	5.0	4.0	4.0	7.8	7.0	30	18	10
5	24	7.0	7.0	5.0	5.0	3.0	3.0	6.5	7.8	29	17	9.7
6	23	7.0	6.0	5.0	5.0	3.0	3.0	5.3	10	26	18	9.4
7	23	7.0	6.0	5.0	4.0	4.0	3.0	5.0	12	30	18	10
8	23	7.0	6.0	4.0	3.0	4.0	4.0	4.8	15	32	17	11
9	17	7.0	6.0	4.0	3.0	3.0	4.0	4.4	18	36	16	10
10	17	7.0	6.0	4.0	2.0	3.0	5.0	4.4	20	37	15	9.7
11	17	7.0	6.0	4.0	2.0	3.0	5.0	4.4	26	32	14	11
12	18	7.0	6.0	4.0	2.0	3.0	4.0	4.2	31	30	14	9.7
13	16	7.0	6.0	4.0	2.0	3.0	4.0	4.2	38	28	14	9.4
14	16	7.0	6.0	4.0	2.0	3.0	4.0	3.3	48	25	14	9.4
15	16	7.0	6.0	4.0	2.0	3.0	4.0	3.3	46	23	13	10
16	15	7.0	7.0	5.0	2.0	3.0	5.0	3.3	44	24	14	9.2
17	15	7.0	8.0	5.0	2.0	3.0	5.0	3.1	40	28	14	9.2
18	15	8.0	8.0	6.0	2.0	3.0	6.0	3.3	33	28	14	13
19	15	8.0	7.0	7.0	2.0	3.0	6.0	2.9	27	26	16	11
20	14	8.0	7.0	7.0	2.0	3.0	6.0	2.9	26	26	15	23
21	14	8.0	6.0	6.0	2.0	4.0	7.0	2.9	27	23	14	68
22	14	8.0	6.0	5.0	2.0	4.0	7.0	2.9	28	24	13	64
23	14	8.0	6.0	5.0	2.0	4.0	8.0	3.3	28	23	13	41
24	13	8.0	6.0	5.0	2.0	3.0	8.0	3.1	28	22	13	31
25	12	8.0	6.0	5.0	2.0	3.0	8.0	3.1	32	20	13	29
26	12	8.0	7.0	6.0	2.0	3.0	10	3.3	34	20	12	28
27	11	8.0	7.0	6.0	2.0	3.0	15	3.3	39	19	12	25
28	9.0	7.0	7.0	6.0	2.0	3.0	17	3.7	40	20	12	30
29	8.0	7.0	7.0	5.0	2.0	3.0	14	4.2	38	20	11	26
30	8.0	7.0	6.0	5.0	---	3.0	10	4.4	37	21	11	23
31	8.0	---	6.0	5.0	---	3.0	---	4.8	---	21	11	---
TOTAL	510.0	220.0	202.0	157.0	77.0	101.0	189.0	138.9	801.5	841	452	580.7
MEAN	16.5	7.33	6.52	5.06	2.66	3.26	6.30	4.48	26.7	27.1	14.6	19.4
MAX	27	8.0	8.0	7.0	5.0	4.0	17	9.4	48	42	19	68
MIN	8.0	7.0	6.0	4.0	2.0	3.0	3.0	2.9	6.7	19	11	9.2
CFSM	1.23	.55	.49	.38	.20	.24	.47	.33	1.99	2.02	1.09	1.45
IN.	1.42	.61	.56	.44	.21	.28	.52	.39	2.22	2.33	1.25	1.61
AC-FT	1010	436	401	311	153	200	375	276	1590	1670	897	1150

CAL YR 1975 TOTAL 5243.6 MEAN 14.4 MAX 59 MIN 2.0 CFSM 1.07 IN 14.56 AC-FT 10400
WTR YR 1976 TOTAL 4270.1 MEAN 11.7 MAX 68 MIN 2.0 CFSM .87 IN 11.85 AC-FT 8470

15274300 NORTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1958-61, 1966-68, 1971, and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP										
22...	1115	59	70	7.2	5.5	12.2	36	13	28	2.8

15274600 CAMPBELL CREEK NEAR SPENARD

LOCATION.--Lat 61°08'17", long 149°55'20", on line between sec.11 and 14, T.12 N., R.4 W., Municipality of Anchorage, Hydrologic Unit 19050002, on upstream right wingwall of bridge at Dimond Boulevard crossing, 2.0 mi (3.2 km) upstream from mouth, and 4.3 mi (6.9 km) south of Spenard.

DRAINAGE AREA.--69.7 mi² (180.5 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.04 ft (5.499 m) above mean sea level.

REMARKS.--Records good except those for Oct. 25 to May 9, which are poor.

AVERAGE DISCHARGE.--10 years, 57.3 ft³/s (1.623 m³/s), 11.16 in/yr (283 mm/yr), 41,510 acre-ft/yr (51.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 421 ft³/s (11.9 m³/s) Aug. 9, 1971, gage height, 3.63 ft (1.106 m); maximum gage height recorded, 5.29 ft (1.612 m) Apr. 20, 1976, backwater from ice; minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Feb. 5, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 386 ft³/s (10.9 m³/s) Sept. 21, gage height, 2.88 ft (0.878 m); maximum gage height recorded, 5.29 ft (1.612 m) Apr. 20, backwater from ice; minimum daily discharge, about 12 ft³/s (0.34 m³/s) Mar. 11 to Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	30	30	30	20	14	12	90	66	148	62	35
2	120	30	30	25	18	14	12	80	82	158	62	35
3	110	35	25	25	18	14	12	80	92	132	62	34
4	110	35	25	25	20	14	12	70	95	119	60	34
5	100	35	25	25	20	14	14	60	111	111	58	35
6	100	40	20	25	20	14	14	50	156	105	61	33
7	100	40	20	25	18	14	14	50	140	108	64	32
8	90	40	20	22	18	14	14	50	120	110	63	38
9	88	40	20	22	18	14	14	50	110	111	63	43
10	84	40	20	22	18	14	16	48	110	116	57	41
11	86	40	20	22	16	12	16	46	126	113	54	49
12	110	40	25	22	16	12	18	45	157	106	53	41
13	96	45	25	22	16	12	20	43	169	98	51	38
14	88	45	25	22	16	12	25	32	184	89	49	37
15	84	45	25	24	16	12	30	29	181	84	48	41
16	81	45	25	24	16	12	30	27	178	79	52	39
17	79	45	30	24	16	12	35	27	155	100	54	36
18	72	45	30	24	16	12	35	38	133	96	53	70
19	75	45	30	24	16	12	40	30	113	86	61	68
20	85	45	30	24	16	12	40	29	107	85	60	92
21	82	45	30	24	16	12	40	30	111	83	56	319
22	67	45	30	22	16	12	35	36	111	84	51	301
23	67	45	30	22	16	12	35	43	108	81	48	207
24	67	40	30	20	14	12	40	36	111	77	46	153
25	60	40	30	20	14	12	45	33	123	71	45	148
26	60	40	30	20	14	12	50	40	134	68	44	147
27	50	40	30	22	14	12	60	42	146	65	47	123
28	45	40	30	22	14	12	80	40	151	64	44	152
29	40	40	30	22	14	12	100	45	143	64	41	133
30	35	35	30	22	---	12	100	53	141	70	37	111
31	30	---	30	20	---	12	---	56	---	67	36	---
TOTAL	2491	1215	830	714	480	392	1008	1428	3864	2948	1642	2665
MEAN	80.4	40.5	26.8	23.0	16.6	12.6	33.6	46.1	129	95.1	53.0	88.8
MAX	130	45	30	30	20	14	100	90	184	158	64	319
MIN	30	30	20	20	14	12	12	27	66	64	36	32
CFSM	1.15	.58	.38	.33	.24	.18	.48	.66	1.85	1.36	.76	1.27
IN.	1.33	.65	.44	.38	.26	.21	.54	.76	2.06	1.57	.88	1.42
AC-FT	4940	2410	1650	1420	952	778	2000	2830	7660	5850	3260	5290

CAL YR 1975 TOTAL 24179.0 MEAN 66.2 MAX 260 MIN 5.0 CFSM .95 IN 12.90 AC-FT 47960
WTR YR 1976 TOTAL 19677.0 MEAN 53.8 MAX 319 MIN 12 CFSM .77 IN 10.50 AC-FT 39030

NOTE.--No gage-height record Oct. 27 to April 19.

15274600 CAMPBELL CREEK NEAR SPENARD--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-61, 1966-73, and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP										
22...	1015	308	61	7.0	6.0	11.5	29	8	25	4.0

15275000 CHESTER CREEK AT ANCHORAGE

LOCATION.--Lat 61°11'59", long 149°50'07", in SW¼ sec.21, T.13 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank 10 ft (3 m) upstream from culverts on Lake Otis Road, 2.3 mi (3.7 km) southeast of Anchorage Post Office, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--20.0 mi^2 (51.8 km^2).

PERIOD OF RECORD.--July 1958 to September 1976 (discontinued).

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and culvert control. Datum of gage is 88.8 ft (27.07 m) above mean sea level. Prior to June 25, 1968, nonrecording gage, and June 25, 1968 to June 8, 1971, nonrecording gage and crest-stage gage.

REMARKS.--Records fair except those for Oct. 27 to Apr. 26, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 18.2 ft^3/s (0.515 m^3/s), 12.36 in/yr (314 mm/yr), 13,190 acre-ft/yr (16.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95 ft^3/s (2.69 m^3/s) Apr. 29, 1963, gage height, 2.40 ft (0.732 m) from graph based on gage readings; maximum gage height observed, 3.8 ft (1.16 m) Nov. 29, 1961, backwater from ice; minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Mar. 4-7, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s (1.44 m^3/s) Sept. 21, gage height, 1.79 ft (0.546 m); minimum daily, about 5.0 ft^3/s (0.14 m^3/s) Dec. 5-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	10	7.5	7.0	8.0	6.0	6.0	23	12	8.4	6.6	6.9
2	29	12	7.0	6.5	7.5	6.0	6.0	21	12	8.9	6.6	6.9
3	29	13	6.0	6.5	7.5	6.0	6.0	18	12	8.6	6.6	6.6
4	29	13	5.5	7.0	7.5	6.0	6.0	18	12	8.6	6.4	6.6
5	28	13	5.0	7.0	7.5	6.0	6.5	17	13	8.9	6.4	6.6
6	26	13	5.0	7.5	7.5	6.0	6.5	15	16	8.6	7.6	6.6
7	25	13	5.0	8.0	7.5	6.0	6.5	14	11	8.2	8.9	6.9
8	24	13	5.0	7.5	7.5	5.5	6.5	13	10	7.6	8.6	8.9
9	23	13	5.0	7.5	7.5	5.5	7.0	13	11	7.9	8.2	10
10	23	13	5.0	7.0	7.5	5.5	7.0	13	10	8.2	7.6	9.7
11	27	13	5.0	7.0	7.5	5.5	7.0	13	9.4	8.2	7.2	9.7
12	26	12	5.0	7.0	7.0	5.5	7.5	13	9.4	8.4	6.9	8.4
13	24	12	5.5	7.0	7.0	5.5	7.5	13	9.2	8.2	6.9	8.4
14	23	12	6.0	7.0	7.0	5.5	8.0	12	8.6	7.9	6.6	8.4
15	23	12	6.5	7.0	7.0	5.5	8.5	12	8.6	7.6	6.6	8.9
16	22	12	7.5	7.0	7.0	5.5	9.0	12	8.9	8.2	8.2	8.6
17	22	13	8.0	7.0	7.0	5.5	10	12	8.6	10	7.6	8.4
18	22	14	9.0	7.0	6.5	5.5	14	13	8.2	8.4	7.4	15
19	21	14	8.5	7.0	6.5	5.5	23	12	8.2	7.6	8.9	11
20	19	14	8.5	7.0	6.5	5.5	25	12	8.2	7.4	7.9	25
21	23	14	8.5	7.0	6.5	5.5	22	12	7.9	6.9	7.4	33
22	22	14	8.5	7.0	6.5	5.5	19	12	8.4	8.2	7.2	16
23	23	13	8.0	7.0	6.5	5.5	17	12	8.4	7.9	7.4	13
24	22	13	8.0	7.5	6.5	5.5	14	12	7.9	7.4	7.2	12
25	19	13	8.0	7.5	6.5	5.5	12	11	7.9	7.2	7.2	12
26	17	12	8.0	7.5	6.5	5.5	20	12	7.9	6.6	6.9	12
27	16	12	8.0	7.5	6.0	5.5	25	12	7.6	6.4	7.2	12
28	14	11	8.0	8.0	6.0	5.5	26	12	7.6	6.4	6.9	19
29	13	9.5	8.0	8.0	6.0	5.5	25	13	7.6	6.6	6.6	13
30	12	8.0	7.5	8.0	---	5.5	23	12	7.4	6.6	6.4	12
31	11	---	7.5	8.0	---	6.0	---	12	---	6.6	6.9	---
TOTAL	687	373.5	213.5	224.5	201.5	174.5	386.5	421	284.9	242.6	225.0	341.5
MEAN	22.2	12.5	6.89	7.24	6.95	5.63	12.9	13.6	9.50	7.83	7.26	11.4
MAX	30	14	9.0	8.0	8.0	6.0	26	23	16	10	8.9	33
MIN	11	8.0	5.0	6.5	6.0	5.5	6.0	11	7.4	6.4	6.4	6.6
CFSM	1.11	.63	.34	.36	.35	.28	.65	.68	.48	.39	.36	.57
IN.	1.28	.69	.40	.42	.37	.32	.72	.78	.53	.45	.42	.64
AC-FT	1360	741	423	445	400	346	767	835	565	481	446	677

CAL YR 1975 TOTAL 6213.6 MEAN 17.0 MAX 64 MIN 2.5 CFSM .85 IN 11.56 AC-FT 12320
WTR YR 1976 TOTAL 3776.0 MEAN 10.3 MAX 33 MIN 5.0 CFSM .52 IN 7.02 AC-FT 7490

NOTE.--No gage-height record Oct. 30 to April 18.

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE

LOCATION.--Lat 61°12'19", long 149°53'43", on line between sec.19, R.3 W., and sec.24, R.4 W., T.13 N., Municipality of Anchorage, Hydrologic Unit 19050002, on upstream right bank wingwall of bridge on Arctic Boulevard at Anchorage.

DRAINAGE AREA.--27.2 mi^2 (70.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

REVISED RECORDS.--WRD Alaska 1972: Drainage area.

GAGE.--Water-stage recorder and culvert control. Datum of gage is 16.02 ft (4.883 m) above mean sea level (from USC&GS, datum of 1968).

REMARKS.--Records poor prior to June 16 and good thereafter.

AVERAGE DISCHARGE.--10 years, 16.3 ft^3/s (0.462 m^3/s), 8.14 in/yr (207 mm/yr), 11,810 acre-ft/yr (14.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 175 ft^3/s (4.96 m^3/s) Sept. 11, 1975, gage height, 4.37 ft (1.332 m); minimum daily, about 1.6 ft^3/s (0.045 m^3/s) Feb. 12-14, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft^3/s (2.63 m^3/s) Sept. 21, gage height, 3.53 ft (1.076 m); minimum daily, about 5.0 ft^3/s (0.14 m^3/s) Dec. 5-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	11	7.5	8.0	7.5	7.5	7.0	28	13	13	9.0	8.6
2	30	11	6.5	7.5	8.0	7.5	7.0	24	13	11	9.0	8.3
3	30	12	6.0	7.5	8.0	7.5	7.5	22	13	11	9.4	8.6
4	28	15	5.5	7.5	8.0	7.0	7.5	21	13	9.8	9.0	8.3
5	28	16	5.0	8.0	8.0	7.0	7.5	22	15	9.8	8.6	8.3
6	28	17	5.0	8.0	8.5	7.0	7.5	20	18	11	16	8.6
7	27	17	5.0	8.5	8.5	7.0	7.5	17	15	10	16	9.0
8	26	17	5.0	8.0	8.5	7.0	7.5	15	12	9.0	12	12
9	26	16	5.0	8.0	8.5	7.0	8.0	15	13	8.6	10	12
10	25	16	5.0	8.0	8.0	7.0	8.0	15	12	8.3	8.6	13
11	28	16	5.0	7.5	8.0	7.0	8.5	15	12	7.3	7.6	14
12	27	16	5.5	7.5	8.0	7.0	8.5	15	11	11	7.3	10
13	26	16	5.5	7.5	8.0	7.0	9.0	15	11	10	8.0	9.8
14	25	15	6.0	7.5	8.0	7.0	9.5	15	10	9.8	7.6	9.8
15	25	15	6.5	8.0	8.0	6.5	10	14	10	10	8.3	11
16	24	15	7.5	8.0	8.0	6.5	10	14	11	9.8	16	11
17	24	16	8.5	8.0	8.0	6.5	11	14	10	17	11	9.8
18	24	17	10	8.0	8.0	6.5	16	15	9.8	10	9.8	20
19	24	17	10	8.0	8.0	6.5	35	14	9.4	9.4	13	13
20	21	18	10	8.0	8.0	6.5	36	13	9.0	10	11	42
21	25	17	10	8.0	8.0	6.5	28	13	9.0	9.8	9.8	49
22	24	17	10	8.0	8.0	6.5	24	13	9.8	13	8.3	20
23	25	17	10	8.0	8.0	6.5	22	13	9.4	11	8.3	17
24	23	17	10	8.0	8.0	7.0	16	13	9.4	11	7.6	15
25	20	16	10	8.0	8.0	7.0	16	13	9.8	9.8	8.0	15
26	18	15	10	8.0	8.0	7.0	19	14	9.0	9.0	7.3	15
27	16	13	9.5	8.0	8.0	7.0	30	14	9.0	8.6	8.0	14
28	14	11	9.5	8.0	7.5	7.0	29	14	8.6	8.6	8.3	30
29	13	9.5	9.0	7.5	7.5	7.0	31	15	9.4	9.0	8.3	17
30	12	8.5	8.5	7.5	---	7.0	26	14	9.8	9.4	8.0	15
31	11	---	8.5	7.5	---	7.0	---	13	---	8.6	8.3	---
TOTAL	727	450.0	235.0	243.5	232.5	214.0	469.5	492	333.4	313.6	297.4	454.1
MEAN	23.5	15.0	7.58	7.85	8.02	6.90	15.7	15.9	11.1	10.1	9.59	15.1
MAX	30	18	10	8.5	8.5	7.5	36	28	18	17	16	49
MIN	11	8.5	5.0	7.5	7.5	6.5	7.0	13	8.6	7.3	7.3	8.3
CFSM	.86	.55	.28	.29	.29	.25	.58	.58	.41	.37	.35	.56
IN.	.99	.62	.32	.33	.32	.29	.64	.67	.46	.43	.41	.62
AC-FT	1440	893	466	483	461	424	931	976	661	622	590	901

CAL YR 1975 TOTAL 7216.5 MEAN 19.8 MAX 110 MIN 1.6 CFSM .73 IN 9.87 AC-FT 14310
WTR YR 1976 TOTAL 4462.0 MEAN 12.2 MAX 49 MIN 5.0 CFSM .45 IN 6.10 AC-FT 8850

NOTE.--No gage-height record Oct. 28 to April 15.

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-73 and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP										
22...	0915	20	195	7.1	6.5	11.7	88	31	70	8.9

15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13'25", long 149°37'55", in NE¼ sec.16, T.13 N., R.2 W., Municipality of Anchorage, Hydrologic Unit 19050002, in Fort Richardson Military Reservation, at diversion dam and Fort Richardson water-supply intake building, 3.5 mi (5.6 km) upstream from North Fork Ship Creek, and 8.5 mi (13.7 km) east of Anchorage.

DRAINAGE AREA.--90.5 mi² (234.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 530 ft (161.5 m) above mean sea level (levels by Corps of Engineers). Oct. 1, 1946 to Apr. 30, 1947, nonrecording gage and May 1, 1947 to Apr. 19, 1954, water-stage recorder, at site 0.2 mi (0.3 km) downstream at different datum. June 18, 1953 to Sept. 30, 1954, supplemental water-stage recorder at site 2.7 mi (4.3 km) downstream at different datum.

REMARKS.--Records good Oct. 1 to Nov. 1 and July 28 to Sept. 30, poor during period of no gage-height record Nov. 2 to Apr. 20, and fair Apr. 21 to July 27. Spillway elevation raised about 4 ft (1.2 m) by stoplogs beginning May 10, 1976. Discharge data represent net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage. Average diversion for water year 1976, 19.8 ft³/s (0.56 m³/s). Diversion began in 1944.

COOPERATION.--Gage inspected and records of diversion furnished by Office of Post Engineers, Fort Richardson.

AVERAGE DISCHARGE.--30 years, 157 ft³/s (4.446 m³/s), 23.56 in/yr (598 mm/yr), 113,700 acre-ft/yr (140 hm³/yr), adjusted to include diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) June 21, 1949, gage height, 3.44 ft (1.049 m), site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s (30.0 m³/s) Sept. 21, gage height, 7.51 ft (2.289 m); minimum daily, about 10 ft³/s (0.28 m³/s) Mar. 26 to Apr. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	30	22	26	22	13	10	53	280	460	136	71
2	158	40	18	24	22	13	10	74	320	440	140	70
3	152	50	16	24	24	13	10	70	360	420	130	66
4	148	46	16	24	26	12	10	62	440	400	124	67
5	144	44	16	26	24	12	10	64	500	382	118	66
6	140	44	14	26	24	12	10	53	480	337	117	63
7	134	44	14	28	22	12	10	60	420	351	118	63
8	129	46	14	26	22	12	10	66	360	379	118	68
9	122	46	14	24	22	12	10	69	400	418	115	78
10	127	46	16	24	22	12	10	61	380	400	109	73
11	136	48	16	22	22	12	10	67	500	365	106	74
12	150	48	18	22	22	12	10	82	600	324	104	67
13	136	48	18	22	22	12	10	80	650	285	99	66
14	131	50	20	22	22	11	10	73	620	255	99	70
15	127	50	20	22	20	11	10	74	580	225	98	77
16	123	52	22	22	20	11	10	73	540	200	99	70
17	114	52	24	22	20	11	10	81	480	234	99	66
18	105	54	26	22	18	11	10	109	420	208	99	109
19	95	56	28	24	18	11	11	98	360	195	98	102
20	92	56	28	24	18	11	11	100	340	190	94	325
21	81	54	30	24	16	11	12	110	320	192	94	850
22	74	52	30	24	16	11	13	120	310	213	90	860
23	87	50	30	24	16	11	16	130	300	188	87	574
24	84	50	30	24	14	11	19	120	340	168	84	418
25	76	48	30	24	14	11	17	130	400	152	82	424
26	90	48	30	22	14	10	16	140	460	136	85	368
27	89	46	30	22	14	10	21	150	500	130	91	306
28	66	44	30	22	13	10	26	160	500	132	85	340
29	50	38	30	22	13	10	36	170	480	132	82	282
30	40	28	30	22	---	10	42	200	480	142	78	240
31	35	---	28	22	---	10	---	240	---	136	75	---
TOTAL	3403	1408	708	728	562	351	420	3139	13120	8189	3153	6373
MEAN	110	46.9	22.8	23.5	19.4	11.3	14.0	101	437	264	102	212
MAX	168	56	30	28	26	13	42	240	650	460	140	860
MIN	35	28	14	22	13	10	10	53	280	130	75	63
AC-FT	6750	2790	1400	1440	1110	696	833	6230	26020	16240	6250	12640

CAL YR 1975 TOTAL 44269.0 MEAN 121 MAX 604 MIN 7.0 AC-FT 87810
WTR YR 1976 TOTAL 41554.0 MEAN 114 MAX 860 MIN 10 AC-FT 82420

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

ADJUSTED TO INCLUDE DIVERSION

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	129	66.0	43.6	44.2	38.6	31.0	32.5	118	458	285	123	233
CFSM	1.43	0.73	0.48	0.49	0.43	0.34	0.36	1.30	5.06	3.15	1.36	2.57
IN	1.64	0.81	0.56	0.56	0.46	0.40	0.40	1.51	5.64	3.63	1.57	2.87
AC-FT	7,920	3,930	2,680	2,720	2,220	1,910	1,930	7,270	27,240	17,520	7,590	13,860

CAL YR 1975 MEAN 142 CFSM 1.57 IN 21.28 AC-FT 102,700
WTR YR 1976 MEAN 133 CFSM 1.47 IN 20.06 AC-FT 96,800

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-51, 1953, 1957-61, 1965-71, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP									
22...	1545	841	75	7.5	5.5	36	8	34	1.7

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE

LOCATION.--Lat 61°13'29", long 149°50'39", in SE¼ sec.8, T.13 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on left bank 0.5 mi (0.8 km) downstream from southwest corner of Elmendorf Air Force Base, 500 ft (150 m) downstream from North Sitka Street, and 2.0 mi (3.2 km) upstream from mouth.

DRAINAGE AREA.--115 mi² (298 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m), from topographic map. Prior to Aug. 7, 1972, at site 0.5 mi (0.8 km) upstream at different datum.

REMARKS.--Water-discharge records good. Diversions above station for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage (see station 15276000). Water also diverted for cooling of power plant and returned above station.

AVERAGE DISCHARGE.--6 years, 120 ft³/s (3.398 m³/s), 86,940 acre-ft/yr (107 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Aug. 9, 1971 (estimated from records at station 15276500); minimum, 5.8 ft³/s (0.16 m³/s) Apr. 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 789 ft³/s (22.3 m³/s) Sept. 21, gage height, 4.32 ft (1.317 m); minimum, 13 ft³/s (0.37 m³/s) Apr. 9, gage height, 1.48 ft (0.451).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	29	24	31	23	23	22	67	250	443	138	67
2	168	49	22	25	22	22	22	82	290	394	140	64
3	162	67	20	27	23	22	22	81	312	332	135	61
4	158	60	19	28	27	23	23	85	348	304	130	58
5	152	50	18	27	24	23	23	81	402	293	123	60
6	142	55	18	29	23	23	22	63	398	276	121	57
7	138	55	18	31	23	23	23	60	332	265	128	53
8	132	51	18	29	22	23	23	65	312	262	125	58
9	128	53	18	27	23	23	23	68	352	276	125	71
10	135	55	19	25	23	23	22	68	324	282	113	70
11	145	53	19	23	23	22	23	74	376	265	107	71
12	165	55	20	23	23	22	23	85	520	247	100	65
13	145	55	21	23	23	23	23	82	555	232	96	64
14	140	56	22	23	23	22	23	73	535	217	94	60
15	138	58	24	26	22	23	23	76	555	202	92	70
16	135	56	27	24	23	23	23	76	520	190	98	68
17	128	60	29	24	22	22	23	79	456	199	98	63
18	121	63	30	24	22	22	24	92	389	193	96	87
19	113	65	34	26	23	22	29	82	332	190	98	105
20	105	65	35	24	22	22	29	84	320	190	94	155
21	111	63	35	24	22	22	29	89	324	187	94	632
22	107	61	34	25	22	22	35	103	316	193	89	590
23	113	60	34	25	22	22	32	123	300	184	85	425
24	113	58	33	23	22	22	29	107	312	172	81	340
25	107	55	35	26	21	21	25	113	368	160	76	332
26	87	55	35	27	21	21	27	119	412	158	77	328
27	68	56	35	24	22	22	36	135	470	150	87	286
28	73	53	35	23	21	22	41	135	480	135	84	361
29	60	45	35	24	21	22	50	162	456	140	77	272
30	53	30	33	23	---	21	61	187	452	145	73	232
31	45	---	34	23	---	21	---	208	---	142	71	---
TOTAL	3768	1646	833	786	653	689	833	3004	11768	7018	3145	5225
MEAN	122	54.9	26.9	25.4	22.5	22.2	27.8	96.9	392	226	101	174
MAX	181	67	35	31	27	23	61	208	555	443	140	632
MIN	45	29	18	23	21	21	22	60	250	135	71	53
AC-FT	7470	3260	1650	1560	1300	1370	1650	5960	23340	13920	6240	10360

CAL YR 1975 TOTAL 46333 MEAN 127 MAX 590 MIN 17 AC-FT 91900
WTR YR 1976 TOTAL 39368 MEAN 108 MAX 632 MIN 18 AC-FT 78090

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1971 to current year.

INSTRUMENTATION.--Temperature recorder since Oct. 19, 1970.

REMARKS.--No record Aug. 25, 26, Sept. 21-30. Water temperatures at low flow are significantly increased by power plant effluent located 0.9 mi (1.4 km) upstream. Prior to August 1972, sampling site was 0.5 mi (0.8 km) upstream.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 18.0°C Aug. 15, 16, 1974; minimum, 0.0°C Jan. 13, 14, 1974.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 14.5°C Aug. 4-6, Aug. 30 to Sept. 2; minimum, 1.0°C Oct. 30, 31, Nov. 3, 29, 30, Dec. 26.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	4.0	2.5	2.0	1.5	2.5	2.0	8.0	5.0	7.5	4.0
2	6.5	5.0	3.5	1.5	2.5	1.5	3.5	2.0	7.5	4.5	9.5	6.5
3	7.5	5.5	1.5	1.0	2.5	2.0	3.0	2.0	8.0	6.0	9.5	6.5
4	7.0	5.5	2.5	1.5	2.5	2.5	3.0	1.5	9.5	6.0	9.5	6.5
5	7.0	6.0	3.0	2.0	2.5	2.0	3.0	2.0	9.5	6.5	9.0	4.5
6	6.5	5.0	3.0	2.5	2.5	2.0	3.0	2.5	9.5	6.5	7.5	5.5
7	6.0	4.0	3.0	2.5	2.0	2.0	3.5	2.5	9.0	4.5	8.0	5.0
8	6.0	4.0	2.5	2.0	2.5	2.0	3.0	2.5	4.5	3.5	9.5	5.5
9	4.5	3.0	3.0	2.5	2.5	2.0	3.5	2.5	4.5	3.5	8.5	4.5
10	5.0	3.5	3.0	2.0	3.0	2.0	3.5	2.5	4.0	2.5	8.5	4.5
11	5.5	4.5	3.5	2.5	4.0	2.5	3.0	2.5	5.5	2.5	6.5	3.5
12	6.5	5.0	3.0	2.5	4.0	3.5	3.5	1.5	5.5	4.5	5.5	3.0
13	6.5	5.5	2.5	2.0	4.5	3.5	4.5	3.0	6.5	4.5	6.5	3.0
14	6.5	5.0	2.5	2.0	4.5	2.5	4.5	3.0	5.5	3.5	6.0	3.0
15	6.5	5.5	2.0	2.0	4.5	3.0	9.5	3.0	5.0	3.5	7.5	3.5
16	6.0	5.0	2.0	1.5	7.5	3.5	8.0	5.5	5.0	3.5	9.0	4.5
17	6.0	4.5	2.5	2.0	5.5	3.5	6.5	4.0	5.5	3.5	8.0	4.5
18	4.5	2.5	2.5	2.0	5.0	3.0	6.5	5.0	5.0	3.5	8.0	4.5
19	3.0	2.0	3.0	2.5	4.5	3.0	7.5	5.5	5.5	4.0	8.5	4.0
20	3.5	2.0	3.0	2.5	4.0	2.0	7.0	5.0	5.5	3.5	8.5	5.5
21	3.5	2.5	2.5	2.0	3.0	1.5	7.5	5.5	5.0	3.0	8.0	5.0
22	4.0	2.5	2.5	2.0	4.0	2.0	7.0	4.5	5.5	3.5	11.0	5.5
23	5.0	4.0	2.0	1.5	4.5	2.5	7.0	5.0	5.5	3.5	11.0	5.5
24	5.0	3.5	2.5	1.5	4.5	1.5	6.5	4.5	6.0	4.0	12.0	6.5
25	3.5	2.0	2.5	1.5	2.5	2.0	6.5	5.0	5.5	3.5	10.5	5.5
26	3.0	2.0	3.0	2.0	2.5	1.0	9.0	5.0	5.5	3.5	9.0	4.5
27	3.5	2.0	2.5	2.0	3.0	2.0	9.0	5.5	6.0	4.0	9.0	5.0
28	3.5	2.0	2.5	2.0	4.0	2.0	8.5	6.0	5.0	4.0	8.5	5.0
29	2.0	1.5	2.0	1.0	5.0	3.0	10.0	6.0	5.0	3.5	10.0	4.5
30	2.0	1.0	2.0	1.0	3.5	1.5	9.5	7.0	---	---	9.0	4.0
31	2.5	1.0	---	---	3.5	2.5	7.5	5.5	---	---	8.5	5.0
MONTH	7.5	1.0	4.0	1.0	7.5	1.0	10.0	1.5	9.5	2.5	12.0	3.0

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.0	9.0	5.0	10.5	5.5	11.5	9.5	14.0	13.0	14.5	13.5
2	10.0	6.0	8.5	5.5	9.5	6.0	10.5	8.5	14.0	13.0	14.5	13.5
3	10.0	6.0	8.0	5.0	10.0	6.0	10.5	8.0	14.0	12.5	14.0	13.0
4	10.0	6.0	9.0	5.5	9.0	6.0	10.5	8.5	14.5	13.5	14.0	13.0
5	11.5	6.5	8.0	5.5	8.5	6.0	9.0	8.0	14.5	14.0	13.5	12.0
6	11.0	6.5	9.5	6.0	6.5	5.5	12.0	8.5	14.5	13.0	13.0	12.0
7	10.0	4.5	10.5	6.0	8.0	5.5	12.0	10.0	13.0	12.5	13.0	12.5
8	12.0	6.0	11.0	6.5	9.5	6.0	12.5	10.5	13.0	12.5	13.0	12.5
9	11.0	7.0	8.5	6.5	8.0	6.0	13.0	11.5	12.5	12.0	13.5	12.5
10	10.0	6.5	10.0	6.5	9.5	5.5	13.0	11.0	14.0	12.5	13.5	12.5
11	9.5	7.0	10.5	6.5	9.0	6.0	12.0	11.0	14.0	13.5	13.0	12.5
12	11.5	7.5	11.0	6.5	9.0	6.0	11.5	11.0	14.0	13.0	13.0	12.0
13	12.0	6.5	8.5	7.5	8.0	6.5	11.5	11.0	13.0	12.5	12.5	12.0
14	12.5	6.0	10.0	6.5	9.0	6.0	12.0	10.5	13.0	13.0	13.0	12.5
15	11.5	6.0	10.5	6.5	8.0	6.5	12.0	11.0	13.0	12.5	13.0	12.5
16	11.0	6.5	9.0	6.5	7.5	6.5	12.0	10.5	13.0	12.5	13.0	12.5
17	10.5	6.0	12.0	6.0	7.5	6.0	12.0	11.0	13.0	12.5	13.0	12.5
18	10.5	6.5	9.5	7.0	7.5	6.0	12.5	11.0	13.0	12.5	13.0	11.5
19	13.0	7.0	8.0	6.5	9.5	6.0	12.5	11.5	13.5	12.5	11.5	11.0
20	12.5	8.0	9.5	6.5	9.5	7.0	13.5	11.5	14.0	13.0	11.5	11.0
21	12.0	6.5	10.0	6.5	9.5	7.0	13.5	12.0	14.0	13.0	---	---
22	12.5	6.5	10.5	7.0	9.0	7.0	13.0	12.0	14.0	13.0	---	---
23	12.0	6.0	9.5	6.5	10.5	7.0	12.0	11.0	14.0	13.0	---	---
24	9.5	6.5	10.0	6.0	12.0	7.5	12.0	10.0	14.0	13.0	---	---
25	8.5	6.0	10.5	6.5	12.0	8.5	13.0	11.0	---	---	---	---
26	12.0	7.0	10.5	7.0	12.0	8.5	13.0	11.5	---	---	---	---
27	10.5	7.0	9.0	6.5	11.5	8.5	13.0	12.0	14.0	13.5	---	---
28	12.5	6.5	9.5	6.0	11.5	9.5	13.0	12.0	14.0	13.0	---	---
29	11.5	6.0	10.0	6.5	11.5	9.0	13.5	12.0	14.0	13.0	---	---
30	11.0	5.5	10.5	5.5	11.5	9.5	14.0	13.0	14.5	13.5	---	---
31	---	---	10.5	6.0	---	---	14.0	12.5	14.5	13.5	---	---
MONTH	13.0	4.5	12.0	5.0	12.0	5.5	14.0	8.0	14.5	12.0	---	---
YEAR	14.5	1.0										

15277100 EAGLE RIVER AT EAGLE RIVER

LOCATION.--Lat 61°18'28", long 149°33'32", in NW¼ sec.13, T.14 N., R.2 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank, 800 ft (200 m) upstream from Eagle River campground, 0.6 mi (1.0 km) upstream from Glenn Highway crossing, and 1.0 mi (1.6 km) south of Eagle River.

DRAINAGE AREA.--192 mi² (497 km²), approximately.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

REMARKS.--Records good except those for Oct. 28 to May 20, which are poor. Summer flows augmented by glaciers that cover 13 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 495 ft³/s (14.02 m³/s), 35.01 in/yr (889 mm/yr), 358,600 acre-ft/yr (442 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,240 ft³/s (177 m³/s) Sept. 18, 1967, gage height, 9.49 ft (2.893 m); minimum daily, 24 ft³/s (0.68 m³/s) Jan. 29 to Feb. 5, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Aug. 2	0430	2,570	72.8	7.23	2.204	Sept. 22	1900	*3,690	105	*7.97	2.429

Minimum daily discharge, about 44 ft³/s (1.25 m³/s) Mar. 12 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422	70	90	60	54	50	44	150	291	1960	2210	595
2	390	65	90	60	54	50	44	180	350	1840	2250	550
3	370	65	80	60	54	50	44	220	394	1660	1800	495
4	370	60	80	60	54	50	44	250	422	1470	1840	462
5	362	60	80	60	54	50	44	220	462	1270	1860	434
6	340	60	70	60	54	50	44	200	458	1190	1780	402
7	312	70	70	60	54	50	44	200	418	1360	1840	414
8	294	70	64	56	54	50	44	180	414	1550	1770	550
9	273	80	64	56	54	48	44	180	475	1750	1650	530
10	270	80	60	56	54	48	44	170	470	1880	1490	426
11	264	90	60	56	54	48	46	170	580	1860	1560	366
12	276	100	60	56	54	44	46	160	878	1720	1370	336
13	270	110	60	56	54	44	46	160	1050	1610	1210	318
14	261	110	60	56	54	44	46	150	1080	1600	1500	422
15	258	110	60	56	54	44	46	150	1120	1590	1310	525
16	252	110	60	56	54	44	48	140	1190	1500	1280	402
17	237	110	60	56	54	44	48	140	1120	1600	1230	332
18	222	110	60	56	54	44	50	140	927	1600	1260	406
19	200	110	60	56	54	44	55	135	826	1680	1110	422
20	175	100	60	56	54	44	60	135	802	1800	1060	600
21	208	100	60	54	54	44	70	157	878	1930	1110	3100
22	202	100	60	54	54	44	80	163	920	2000	1160	3320
23	215	100	60	54	54	44	70	182	892	1520	1210	2220
24	198	100	60	54	50	44	65	178	948	1300	1260	1420
25	171	100	60	54	50	44	65	175	1160	1290	1280	1800
26	123	100	60	54	50	44	80	180	1330	1310	1200	1480
27	105	100	60	54	50	44	120	182	1570	1260	1280	1380
28	90	100	60	54	50	44	150	192	1700	1370	976	1200
29	80	100	60	54	50	44	140	200	1720	1490	778	1100
30	75	90	60	54	---	44	140	210	1820	2050	688	1000
31	70	---	60	54	---	44	---	237	---	2050	635	---
TOTAL	7355	2730	2008	1742	1542	1424	1911	5486	26665	50060	42957	27007
MEAN	237	91.0	64.8	56.2	53.2	45.9	63.7	177	889	1615	1386	900
MAX	422	110	90	60	54	50	150	250	1820	2050	2250	3320
MIN	70	60	60	54	50	44	44	135	291	1190	635	318
CFSM	1.23	.47	.34	.29	.28	.24	.33	.92	4.63	8.41	7.22	4.69
IN.	1.43	.53	.39	.34	.30	.28	.37	1.06	5.17	9.70	8.32	5.23
AC-FT	14590	5410	3980	3460	3060	2820	3790	10880	52890	99290	85210	53570

CAL YR 1975 TOTAL 165027 MEAN 452 MAX 2590 MIN 44 CFSM 2.35 IN 31.97 AC-FT 327300
WTR YR 1976 TOTAL 170887 MEAN 467 MAX 3320 MIN 44 CFSM 2.43 IN 33.11 AC-FT 339000

NOTE.--No gage-height record Nov. 1 to May 20.

15277410 PETERS CREEK NEAR BIRCHWOOD

LOCATION.--Lat 61°25'08", long 149°29'20", in NW¼SE¼ sec.5, T.15 N., R.1 W., Municipality of Anchorage, Hydrologic Unit 19050002, on left bank 50 ft (15 m) upstream from Alaska Railroad bridge, 0.5 mi (0.8 km) downstream from unnamed tributary, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) north of Birchwood.

DRAINAGE AREA.--87.8 mi² (227.4 km²).

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (22.9 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 564 ft³/s (16.0 m³/s) June 30, 1975, gage height, 5.75 ft (1.753 m); maximum gage height, 7.45 ft (2.271 m) Jan. 5, 1976, backwater from ice; minimum daily discharge, 18 ft³/s (0.51 m³/s) Jan. 5, 6, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 408 ft³/s (11.6 m³/s) Sept. 22, gage height, 5.52 ft (1.682 m); maximum gage height, 7.45 ft (2.271 m) Jan. 5, backwater from ice; minimum discharge, 20 ft³/s (0.57 m³/s) Apr. 3, 7, 15, gage height, 3.87 ft (1.180 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	40	60	43	37	26	24	47	63	246	234	115
2	125	40	60	40	38	26	24	53	74	240	231	101
3	121	40	60	36	40	26	23	51	74	216	219	90
4	116	40	60	32	38	26	24	53	74	189	222	86
5	114	40	56	30	38	26	24	49	90	160	222	81
6	110	42	56	30	37	28	24	41	88	145	216	78
7	109	42	56	30	37	28	24	38	76	170	222	75
8	107	45	56	30	36	28	24	40	76	200	198	76
9	98	50	56	32	36	28	24	38	85	230	189	76
10	107	55	56	32	35	30	24	39	93	250	183	75
11	107	60	56	34	35	30	24	41	128	250	180	74
12	103	70	52	34	35	32	24	42	168	230	160	70
13	96	80	52	36	36	30	24	40	177	210	160	69
14	92	85	52	36	35	28	24	37	192	200	162	72
15	92	80	52	38	33	26	24	35	207	200	155	72
16	89	80	52	38	28	26	24	36	192	200	155	69
17	86	75	52	40	28	26	24	39	171	190	150	68
18	80	75	52	40	27	26	25	40	150	190	145	70
19	75	75	52	41	26	26	25	37	145	190	142	69
20	70	70	51	40	26	25	26	38	145	190	148	113
21	78	70	49	40	25	25	27	39	148	210	152	328
22	78	70	49	39	25	25	28	41	152	225	150	356
23	81	70	49	38	25	25	29	42	150	222	150	283
24	78	70	49	37	25	24	28	38	160	213	150	240
25	70	65	48	39	24	24	26	39	186	201	150	234
26	53	65	47	38	24	25	25	41	216	192	145	219
27	44	65	47	38	24	25	37	42	237	180	140	192
28	42	65	46	38	24	25	38	46	246	189	130	174
29	42	65	45	36	24	25	42	49	252	195	125	155
30	40	60	45	36	---	25	46	51	243	216	132	138
31	40	---	44	37	---	24	---	54	---	216	138	---
TOTAL	2674	1849	1617	1128	901	819	809	1316	4458	6355	5263	3918
MEAN	86.3	61.6	52.2	36.4	31.1	26.4	27.0	42.5	149	205	170	131
MAX	131	85	60	43	40	32	46	54	252	250	234	356
MIN	40	40	44	30	24	24	23	35	63	145	125	68
CFSM	.98	.70	.59	.41	.35	.30	.31	.48	1.70	2.33	1.94	1.49
IN.	1.13	.78	.69	.48	.38	.35	.34	.56	1.89	2.69	2.23	1.66
AC-FT	5300	3670	3210	2240	1790	1620	1600	2610	8840	12610	10440	7770

CAL YR 1975 TOTAL 39457 MEAN 108 MAX 504 MIN 18 CFSM 1.23 IN 16.72 AC-FT 78260
WTR YR 1976 TOTAL 31107 MEAN 85.0 MAX 356 MIN 23 CFSM .97 IN 13.18 AC-FT 61700

15281000 KNIK RIVER NEAR PALMER

LOCATION.--Lat 61°30"18", long 149°01'50", in NE¼SE¼ sec.2, T.16 N., R.2 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, near right bank on downstream side of bridge on Old Glenn Highway, 7 mi (11 km) south of Palmer, 7 mi (11 km) upstream from Alaska Railroad bridge, 9 mi (14 km) downstream from Friday Creek, and about 17 mi (27 km) downstream from Knik Glacier. Prior to Apr. 19, 1976, at site 0.4 mi (0.6 km) upstream.

DRAINAGE AREA.--1,180 mi² (3,060 km²), approximately.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 30.2 ft (9.20 m) above mean sea level. Prior to June 27, 1960, nonrecording gage, and June 27, 1960 to Apr. 25, 1974, water-stage recorder at old bridge 100 ft (30 m) upstream at present datum. Apr. 26, 1974 to Apr. 18, 1976, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum.

REMARKS.--Records good except those for Oct. 29 to Apr. 18, which are poor. Flood peaks due to outbreak of Lake George, 1948-62, 1964, 1965, published in WSP 1936. Streamflow augmented by glaciers, which cover 54 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 6,759 ft³/s (191.4 m³/s), 77.80 in/yr (1,976 mm/yr), 4,897,000 acre-ft (6.04 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 355,000 ft³/s (10,100 m³/s) July 26, 1961, gage height, 24.3 ft (7.41 m), caused by release of stored water (Lake George) behind Knik Glacier; maximum gage height, 24.35 ft (7.422 m) July 17, 1960; minimum daily discharge, about 260 ft³/s (7.4 m³/s) Mar. 1-31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1948, 359,000 ft³/s (10,200 m³/s) July 18, 1958, stage, 25.30 ft (7.711 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,700 ft³/s (756 m³/s) Aug. 2, gage height, 10.82 ft (3.298 m); minimum daily, about 380 ft³/s (11 m³/s) Mar. 11 to Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6860	1100	600	500	450	400	380	3300	6980	21800	24600	13400
2	6330	1100	600	500	450	400	380	3100	7700	20900	26000	12600
3	5610	1100	600	500	450	400	380	3420	8260	20600	24600	11100
4	5810	1000	600	500	450	400	380	3460	8540	20300	24000	10100
5	5610	1000	600	500	450	400	380	3540	9220	17800	24600	9780
6	5610	1000	600	500	450	400	400	3050	9020	16000	23700	9380
7	5330	1000	600	450	450	400	400	2870	8140	17200	23200	9460
8	5050	900	600	450	450	400	400	2730	7980	19000	23700	11700
9	4200	900	600	450	450	400	400	2640	8700	20600	22900	12000
10	4100	900	600	450	450	400	450	2350	8660	22500	22300	10800
11	3820	900	600	450	400	380	450	2530	10100	24600	22000	9420
12	4380	900	600	450	400	380	450	2940	12000	22500	21800	8500
13	4650	800	500	450	400	380	500	3210	14200	20800	20400	7940
14	4810	800	500	450	400	380	500	2700	15500	20700	20800	9220
15	4890	800	500	450	400	380	600	2820	16300	20700	20200	11400
16	5330	800	500	450	400	380	600	2730	16300	19700	19300	10800
17	3890	800	500	450	400	380	700	2890	16300	20300	18000	10600
18	3020	800	500	450	400	380	800	3120	15800	20300	17700	13000
19	3160	800	500	450	400	380	1100	3280	15000	20900	17000	14200
20	2050	700	500	450	400	380	1100	3350	14700	21600	16400	17000
21	2600	700	500	450	400	380	1000	3420	14800	23200	16500	19500
22	1850	700	500	450	400	380	1000	3900	14200	22000	17100	16400
23	2100	700	500	450	400	380	900	4030	14000	21400	17200	15400
24	2050	700	500	450	400	380	900	4110	14600	19200	17800	14500
25	1800	700	500	450	400	380	1100	3850	15800	19300	18200	14100
26	1350	700	500	450	400	380	1400	3900	17200	19600	17900	14600
27	1290	700	500	450	400	380	2000	3770	18900	19800	18300	12500
28	1250	700	500	450	400	380	2900	4240	20000	19500	17500	9820
29	1200	600	500	450	400	380	3200	5060	20500	19500	15600	9900
30	1200	600	500	450	---	380	3510	7900	21300	21900	14600	9620
31	1200	---	500	450	---	380	---	6240	---	22700	13600	---
TOTAL	112400	24900	16700	14250	12100	11980	28660	110450	400700	636900	617500	358740
MEAN	3626	830	539	460	417	386	955	3563	13360	20550	19920	11960
MAX	6860	1100	600	500	450	400	3510	7900	21300	24600	26000	19500
MIN	1200	600	500	450	400	380	380	2350	6980	16000	13600	7940
CFSM	3.07	.70	.46	.39	.35	.33	.81	3.02	11.3	17.4	16.9	10.1
IN.	3.54	.78	.53	.45	.38	.38	.90	3.48	12.63	20.08	19.47	11.31
AC-FT	222900	49390	33120	28260	24000	23760	56850	219100	794800	1263000	1225000	711600

CAL YR 1975 TOTAL 2321650 MEAN 6361 MAX 33100 MIN 350 CFSM 5.39 IN 73.19 AC-FT 4605000
WTR YR 1976 TOTAL 2345280 MEAN 6408 MAX 26000 MIN 380 CFSM 5.43 IN 73.94 AC-FT 4652000

NOTE.--No gage-height record Oct. 31 to April 18.

15282000 CARIBOU CREEK NEAR SUTTON

LOCATION.--Lat 61°48'12", long 147°40'57", in SE¼ sec.20, T.20 N., R.10 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left pier of bridge on Glenn Highway, 1.4 mi (2.3 km) downstream from Pan Creek, 1.8 mi (2.9 km) upstream from mouth, and 40 mi (64 km) east of Sutton.

DRAINAGE AREA.--289 mi² (749 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,767 ft (538.6 m) above mean sea level.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1 to May 27 and Aug. 25 to Sept. 30, which are poor. Large diurnal fluctuations at times each year caused by snowmelt.

AVERAGE DISCHARGE.--21 years, 299 ft³/s (8.468 m³/s), 14.05 in/yr (357 mm/yr), 216,600 acre-ft/yr (267 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,720 ft³/s (247 m³/s) June 15, 1973, gage height, 7.18 ft (2.188 m); no flow Mar. 16 to Apr. 10, 1966 and Mar. 10-18, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 3	2300	2,790	79.0	5.31	1.618	June 22	0200	2,310	65.4	4.92	1.500
June 10	2000	*5,220	148	*6.76	2.060	July 12	1130	2,480	70.2	5.07	1.545

Minimum daily discharge, about 1.0 ft³/s (0.028 m³/s) Jan. 1 to Mar. 9

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	30	8.0	1.0	1.0	1.0	2.0	300	992	626	231	200
2	190	26	8.0	1.0	1.0	1.0	3.0	300	1440	490	225	200
3	180	26	7.0	1.0	1.0	1.0	3.0	300	1680	410	219	250
4	160	26	6.0	1.0	1.0	1.0	3.0	250	1660	348	240	250
5	140	22	5.0	1.0	1.0	1.0	3.0	250	1650	249	219	200
6	120	22	4.0	1.0	1.0	1.0	3.0	250	1340	219	210	200
7	110	22	4.0	1.0	1.0	1.0	3.0	250	904	302	219	200
8	100	22	4.0	1.0	1.0	1.0	4.0	200	1130	420	231	200
9	100	18	3.0	1.0	1.0	1.0	4.0	200	2170	512	222	180
10	100	18	3.0	1.0	1.0	2.0	4.0	200	3420	455	207	180
11	100	18	3.0	1.0	1.0	2.0	4.0	200	2970	512	216	180
12	100	18	3.0	1.0	1.0	2.0	5.0	200	1970	1420	376	160
13	90	18	3.0	1.0	1.0	2.0	5.0	200	1790	936	372	160
14	90	16	2.0	1.0	1.0	2.0	6.0	210	1800	560	310	160
15	90	16	2.0	1.0	1.0	2.0	7.0	250	1650	460	306	160
16	80	16	2.0	1.0	1.0	2.0	8.0	250	1210	602	302	140
17	80	16	2.0	1.0	1.0	2.0	10	250	680	824	285	140
18	80	14	2.0	1.0	1.0	2.0	15	250	460	816	273	160
19	80	14	2.0	1.0	1.0	2.0	20	300	506	584	320	220
20	70	14	2.0	1.0	1.0	2.0	30	300	614	485	420	300
21	70	12	2.0	1.0	1.0	2.0	50	300	768	430	440	400
22	70	12	2.0	1.0	1.0	2.0	70	350	1630	348	384	480
23	70	12	2.0	1.0	1.0	2.0	100	350	1070	306	332	400
24	70	10	2.0	1.0	1.0	2.0	150	300	1070	400	306	350
25	60	10	2.0	1.0	1.0	2.0	200	300	1100	356	300	280
26	50	10	2.0	1.0	1.0	2.0	600	350	992	316	300	230
27	50	9.0	2.0	1.0	1.0	2.0	500	500	1000	328	250	200
28	45	9.0	2.0	1.0	1.0	2.0	400	638	880	299	250	170
29	40	9.0	2.0	1.0	1.0	2.0	350	928	720	273	250	150
30	35	9.0	2.0	1.0	---	2.0	350	808	620	261	250	120
31	30	---	2.0	1.0	---	2.0	---	696	---	243	200	---
TOTAL	2850	494.0	97.0	31.0	29.0	53.0	2912.0	10430	39886	14790	8665	6620
MEAN	91.9	16.5	3.13	1.00	1.00	1.71	97.1	336	1330	477	280	221
MAX	200	30	8.0	1.0	1.0	2.0	600	928	3420	1420	440	480
MIN	30	9.0	2.0	1.0	1.0	1.0	2.0	200	460	219	200	120
CFSM	.32	.06	.01	.003	.003	.005	.34	1.16	4.60	1.65	.97	.76
IN.	.37	.06	.01	.004	.004	.007	.37	1.34	5.13	1.90	1.12	.85
AC-FT	5650	980	192	61	58	105	5780	20690	79110	29340	17190	13130

CAL YR 1975 TOTAL 142077.0 MEAN 389 MAX 3330 MIN 2.0 CFSM 1.35 IN 18.29 AC-FT 281800
WTR YR 1976 TOTAL 86857.0 MEAN 237 MAX 3420 MIN 1.0 CFSM .82 IN 11.18 AC-FT 172300

15282000 CARIBOU CREEK NEAR SUTTON--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1951-69, 1972, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
JUN												
14...	2330	2720	105	7.7	4.5	23	1400	43	0	14	1.9	5.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
JUN												
14...	.4	56	0	1.8	13	1.2	.1	3.5	61	67	.06	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN			
14...	2330	80	20

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
JUN								
14...	2330	2720	4.5	1400	7220	53000	16	24

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JUN								
14...	33	46	59	70	83	93	98	100

15290000 LITTLE SUSITNA RIVER NEAR PALMER

LOCATION.--Lat 61°42'32", long 149°13'36", in NW¼ sec.26, T.19 N., R.1 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank 40 ft (12 m) downstream from highway bridge on Wasilla-Fishhook Road, 1.5 mi (2.4 km) north of road junction, 1.8 mi (2.9 km) downstream from unnamed tributary, and 8 mi (13 km) northwest of Palmer.

DRAINAGE AREA.--61.9 mi^2 (160.3 km^2).

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 918.6 ft (279.99 m) above mean sea level (river-profile survey). Prior to Aug. 16, 1948, nonrecording gage and Aug. 17, 1948 to May 15, 1972, water-stage recorder on left bank. Prior to Oct. 1, 1974, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for Oct. 25 to Nov. 26, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 202 ft^3/s (5.721 m^3/s), 44.32 in/yr (1,126 mm/yr), 146,300 acre-ft/yr (180 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,840 ft^3/s (222 m^3/s) Aug. 10, 1971, gage height, 9.84 ft (2.999 m) in gage well, 12.30 ft (3.749 m), top of needle peak in gage well, about 13 ft (4.0 km) from floodmarks, present datum, from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, about 8 ft^3/s (0.23 m^3/s) Apr. 1-20, 1956 and Mar. 11, 12, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft^3/s (40.5 m^3/s) June 12, gage height, 6.03 ft (1.838 m), only peak above base of 1,200 ft^3/s (34 m^3/s); minimum, 17 ft^3/s (0.48 m^3/s) Mar. 25 to Apr. 21, gage height, 1.34 ft (0.408 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	75	55	36	25	20	17	73	489	677	296	123
2	292	70	50	36	25	20	17	82	652	558	279	115
3	275	70	50	33	25	20	17	82	706	428	267	109
4	250	70	48	33	25	20	17	78	736	389	286	108
5	235	70	46	32	25	20	17	87	732	500	270	104
6	220	70	46	32	25	20	17	73	580	398	238	99
7	202	70	46	32	25	20	17	68	500	442	282	96
8	189	70	44	32	25	20	17	73	576	478	236	97
9	173	65	44	31	25	20	17	82	627	593	214	104
10	179	65	44	30	25	20	17	78	754	631	217	98
11	202	65	46	29	25	20	17	94	1080	500	231	94
12	208	65	46	28	25	19	17	98	1140	547	231	91
13	175	65	46	27	25	19	17	83	1090	493	214	87
14	165	65	48	27	24	19	17	68	1110	401	201	87
15	159	65	48	27	24	19	17	66	975	365	192	97
16	149	65	48	27	24	19	17	75	807	404	212	99
17	127	65	48	27	24	19	17	100	606	698	203	90
18	117	65	48	27	24	19	17	123	540	493	253	86
19	107	65	48	25	24	19	17	102	565	413	224	96
20	104	65	48	25	23	18	17	110	660	389	241	109
21	109	65	48	26	23	18	17	134	622	368	222	131
22	111	65	48	25	23	18	18	162	580	350	207	142
23	115	65	44	24	22	18	19	155	489	347	201	124
24	102	65	41	25	22	18	20	126	585	371	198	115
25	95	65	41	25	22	17	19	147	690	362	187	108
26	90	65	37	25	22	17	18	180	719	301	172	104
27	85	61	37	25	22	17	20	196	750	282	160	99
28	80	60	37	25	22	17	32	180	690	258	150	96
29	80	58	37	25	21	17	48	208	652	255	139	92
30	75	57	37	25	---	17	65	270	561	272	132	88
31	75	---	37	25	---	17	---	329	---	267	134	---
TOTAL	4855	1971	1391	871	691	581	616	3776	21263	13230	6689	3088
MEAN	157	65.7	44.9	28.1	23.8	18.7	20.5	122	709	427	216	103
MAX	310	75	55	36	25	20	65	329	1140	698	296	142
MIN	75	57	37	24	21	17	17	66	489	255	132	86
CFSM	2.54	1.06	.73	.45	.38	.30	.33	1.97	11.5	6.90	3.49	1.66
IN.	2.92	1.18	.84	.52	.42	.35	.37	2.27	12.78	7.95	4.02	1.86
AC-FT	9630	3910	2760	1730	1370	1150	1220	7490	42180	26240	13270	6130

CAL YR 1975 TOTAL 86030 MEAN 236 MAX 1140 MIN 18 CFSM 3.81 IN 51.70 AC-FT 170600
WTR YR 1976 TOTAL 59022 MEAN 161 MAX 1140 MIN 17 CFSM 2.60 IN 35.47 AC-FT 117100

15291000 SUSITNA RIVER NEAR DENALI

LOCATION.--Lat 63°06'14", long 147°30'57", in NE¼ sec.10, T.21 S., R.1 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on upstream right pier of bridge on Denali Highway, 0.2 mi (0.3 km) downstream from Windy Creek, 3.3 mi (5.3 km) upstream from Butte Creek, and 5.3 mi (8.5 km) southwest of Denali.

DRAINAGE AREA.--950 mi² (2,460 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1957 to September 1966, July 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,440 ft (744 m), from topographic map. See WSP 2136 for history of changes prior to July 4, 1968. July 4, 1968 to Aug. 28, 1974, on left upstream wingwall, at present datum.

REMARKS.--Water-discharge records good except for those for period of no gage-height record, Oct. 18 to May 24, which are poor. Streamflow augmented by glaciers, which cover 25 percent of the basin.

AVERAGE DISCHARGE.--17 years (water years 1958-66, 1969-76), 2,688 ft³/s (76.12 m³/s), 38.42 in/yr (976 mm/yr), 1,947,000 acre-ft/yr (2.40 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,200 ft³/s (1,080 m³/s) Aug. 10, 1971, gage height, 13.32 ft (4.060 m) from rating curve extended above 19,000 ft³/s (540 m³/s); maximum gage height, 13.58 ft (4.139 m) May 11, 1970, backwater from ice; minimum daily discharge, about 34 ft³/s (0.96 m³/s) Mar. 16-31, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 14 or 15, 1967 reached a stage of 12.7 ft (3.87 m), from floodmarks, discharge, 28,200 ft³/s (799 m³/s), from rating curve extended above 19,000 ft³/s (540 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 14,000 ft³/s (400 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
July 24	0600	14,400	408	11.81	3.600	Aug. 8	0330	20,600	583	12.15	3.703
Aug. 4	0730	*22,100	626	*12.26	3.737						

Minimum daily discharge, about 90 ft³/s (2.5 m³/s) Feb. 22 to Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3000	600	230	120	100	90	90	300	3430	7700	11400	3900
2	2600	600	230	120	100	90	90	400	4340	8330	16300	3310
3	2300	600	200	120	100	90	90	450	4780	7460	17700	2860
4	2000	500	200	120	100	90	90	500	4950	7040	19700	2600
5	1800	500	200	120	100	90	90	450	5650	5850	18000	2050
6	1600	500	200	120	100	90	100	700	5850	4780	15700	1540
7	1560	500	200	120	100	90	100	1000	4620	5960	17400	1400
8	1650	450	200	120	100	90	100	2000	4380	7160	17000	1320
9	1580	450	200	120	100	90	100	2500	4780	8330	11800	1630
10	1580	450	170	120	100	90	100	3000	5100	8680	9260	1610
11	1610	400	170	120	100	90	100	2200	6860	8330	9260	1340
12	1760	400	170	120	100	90	100	2000	6920	9260	10400	1200
13	1980	400	170	120	100	90	100	2200	6500	11000	9660	1150
14	2000	350	170	120	100	90	100	2000	6380	8960	11800	1200
15	1910	350	170	120	100	90	100	1800	6620	8680	10500	1670
16	1900	350	170	120	100	90	100	1700	6920	9500	9820	1380
17	1880	350	170	120	100	90	100	1600	6620	8610	10100	1200
18	1800	300	170	120	100	90	100	1800	6020	8610	7640	1150
19	1700	300	170	100	100	90	120	2000	5850	8820	5600	1200
20	1600	300	140	100	100	90	120	1800	6020	8260	5700	1610
21	1400	300	140	100	100	90	120	1800	5800	8820	6560	2160
22	1200	300	140	100	90	90	140	2000	5800	9580	6740	2580
23	1000	260	140	100	90	90	140	2200	5750	10700	7220	2490
24	900	260	140	100	90	90	140	2200	5700	11300	7770	2080
25	900	260	140	100	90	90	170	2230	6320	9030	8400	1900
26	800	260	140	100	90	90	170	2440	6380	8260	7640	1880
27	800	260	140	100	90	90	170	2600	6860	8330	6260	1740
28	800	230	140	100	90	90	200	2160	7980	8890	5600	1600
29	700	230	140	100	90	90	200	2490	7640	8820	4180	1500
30	700	230	140	100	---	90	250	2720	7340	10600	3520	1400
31	700	---	140	100	---	90	---	2720	---	9660	3820	---
TOTAL	47710	11240	5240	3460	2820	2790	3690	55960	178160	265310	312450	54650
MEAN	1539	375	169	112	97.2	90.0	123	1805	5939	8558	10080	1822
MAX	3000	600	230	120	100	90	250	3000	7980	11300	19700	3900
MIN	700	230	140	100	90	90	90	300	3430	4780	3520	1150
CFSM	1.62	.39	.18	.12	.10	.09	.13	1.90	6.25	9.01	10.6	1.92
IN.	1.87	.44	.21	.14	.11	.11	.14	2.19	6.98	10.39	12.23	2.14
AC-FT	94630	22290	10390	6860	5590	5530	7320	111000	353400	526200	619700	108400

CAL YR 1975 TOTAL 1061980 MEAN 2910 MAX 20000 MIN 140 CFSM 3.06 IN 41.58 AC-FT 2106000
WTR YR 1976 TOTAL 943480 MEAN 2578 MAX 19700 MIN 90 CFSM 2.71 IN 36.94 AC-FT 1871000

15291000 SUSITNA RIVER NEAR DENALI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-66, 1968-69, 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1974 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since Aug. 29, 1974.

REMARKS.--No record Oct. 1-8 and Sept. 28-30 due to recorder malfunction. No record Oct. 27 to May 23 when recorder was shut down in winter.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 10.5°C June 15, 16, 1975; minimum, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 10.0°C June 10, 11, 13-16, 24-27, July 6,7; minimum, 0.0°C on most days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)
AUG					
27...	0930	7660	2.0	<5	180
SEP					
27...	1700	1730	3.5	>5	45

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAY									
25...	1030	2180	5.0	--	195	1150	13	15	21
JUL									
16...	0945	10900	4.0	300	1960	57700	16	23	32
AUG									
27...	0930	7660	2.0	180	757	15700	16	21	29
SEP									
27...	1700	1730	3.5	45	155	724	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAY								
25...	30	45	61	67	87	98	100	--
JUL								
16...	43	56	69	79	87	91	97	100
AUG								
27...	38	48	60	73	85	94	100	--
SEP								
27...	--	--	38	54	79	98	100	--

15291000 SUSITNA RIVER NEAR DENALI--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER 1975

DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN
1	---	---	11	0.0	0.0	21	0.0	0.0
2	---	---	12	0.0	0.0	22	0.0	0.0
3	---	---	13	0.0	0.0	23	0.0	0.0
4	---	---	14	0.0	0.0	24	0.0	0.0
5	---	---	15	0.0	0.0	25	0.0	0.0
6	---	---	16	0.0	0.0	26	0.0	0.0
7	---	---	17	0.0	0.0	27	---	---
8	---	---	18	0.0	0.0	28	---	---
9	0.0	0.0	19	0.0	0.0	29	---	---
10	0.0	0.0	20	0.0	0.0	30	---	---
						31	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	8.5	5.0	7.5	5.0	7.5	3.5	5.5	2.5
2			---	---	8.5	4.5	6.0	4.5	7.5	4.5	5.5	2.5
3			---	---	8.5	4.5	7.0	4.5	6.0	3.5	5.5	2.5
4			---	---	8.0	5.5	7.0	4.5	6.5	3.5	5.0	4.0
5			---	---	7.5	5.5	4.5	4.0	6.5	3.5	5.0	2.0
6			---	---	7.5	5.0	10.0	4.0	7.0	3.5	5.0	3.5
7			---	---	7.0	4.5	10.0	6.0	7.0	4.0	5.0	4.0
8			---	[illegible]	8.5	5.5	8.5	5.5	4.5	3.5	4.5	4.0
9			---	[illegible]	8.5	5.5	8.5	5.5	4.5	3.5	5.0	4.5
10			---	---	10.0	6.0	8.0	5.0	6.5	3.5	5.0	3.0
11			---	---	10.0	5.5	7.5	5.5	6.5	4.0	5.5	4.0
12			---	---	9.5	5.5	9.0	5.0	6.0	4.5	5.5	4.0
13			---	---	10.0	6.0	9.0	5.0	6.5	3.5	5.5	3.0
14			---	---	10.0	6.0	6.0	5.0	6.5	4.0	5.5	5.0
15			---	---	10.0	6.0	6.5	4.5	5.0	3.5	5.0	4.0
16			---	---	10.0	5.5	6.5	3.5	5.0	3.5	4.5	3.5
17			---	---	7.0	5.0	8.0	4.0	4.5	3.5	4.5	4.0
18			---	---	6.0	4.5	8.0	4.0	4.5	4.0	4.0	3.0
19			---	---	8.5	4.5	7.5	4.0	6.5	4.0	5.5	4.0
20			---	---	8.0	4.5	8.5	3.5	7.0	3.5	5.5	4.0
21			---	---	9.0	4.5	8.5	4.0	7.0	3.5	5.5	5.0
22			---	---	9.0	6.0	7.5	4.0	6.5	3.5	5.0	4.5
23			---	---	9.0	5.0	7.0	4.5	6.5	3.5	4.5	2.5
24			5.0	---	10.0	5.5	6.0	4.5	7.0	3.5	3.5	2.0
25			6.0	1.5	10.0	6.0	6.0	4.0	7.0	3.5	4.0	2.5
26			6.0	3.5	10.0	5.0	6.0	4.0	6.5	3.0	4.0	3.0
27			5.0	2.5	10.0	6.0	7.0	4.0	6.5	2.0	4.0	2.5
28			6.5	2.0	9.5	5.5	7.0	4.0	5.5	2.5	---	---
29			6.5	3.0	8.0	5.0	8.0	4.0	5.5	3.0	---	---
30			6.5	3.5	7.5	5.5	8.0	4.0	6.5	2.5	---	---
31			8.0	3.5	---	---	7.5	3.0	6.5	4.0	---	---
MONTH			---	---	10.0	4.5	10.0	3.0	7.5	2.0	5.5	2.0
YEAR	10.0	0.0										

15291200 MACLAREN RIVER NEAR PAXSON

LOCATION.--Lat 63°07'10", long 146°31'45", Matanuska-Susitna Borough, Hydrologic Unit 19050002, near left bank on downstream side of bridge on Denali Highway, 1.5 mi (2.4 km) downstream from Boulder Creek, and 34 mi (55 km) west of Paxson.

DRAINAGE AREA.--280 mi^2 (730 km^2), approximately.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,865.84 ft (873.508 m) above mean sea level (Alaska Department of Public Works bench mark). See WSP 2136 for history of changes prior to Aug. 23, 1968.

REMARKS.--Records good except those for period of no gage-height record, Oct. 21 to May 26, which are poor. Streamflow augmented by Maclaren Glacier, which covers 19 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 973 ft^3/s (27.56 m^3/s), 47.19 in/yr (1,199 mm/yr), 704,900 acre-ft/yr (869 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,260 ft^3/s (262 m^3/s) Aug. 11, 1971, gage height, 8.24 ft (2.512 m), from rating curve extended above 5,300 ft^3/s (150 m^3/s); maximum gage heihgt, 9.10 ft (2.774 m) in May 1964, from floodmarks, backwater from ice; minimum daily discharge, about 40 ft^3/s (1.1 m^3/s) Mar. 1-25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft^3/s (120 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 3	0030	4,540	129	5.81	1.771	Aug. 7	2030	*4,700	133	*5.85	1.783

Minimum daily discharge, about 90 ft^3/s (2.5 m^3/s) Feb. 13 to Apr. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	956	350	160	120	100	90	90	160	1780	3080	3490	1190
2	876	300	160	120	100	90	90	180	2260	3180	3940	1050
3	822	300	160	120	100	90	90	200	2640	2770	4060	988
4	788	300	160	120	100	90	90	250	3070	2520	3870	1010
5	747	300	160	120	100	90	90	300	3340	2190	3590	700
6	687	300	160	120	100	90	90	400	3210	2040	3330	577
7	668	260	160	120	100	90	90	500	2950	2420	3890	498
8	615	260	160	120	100	90	90	600	2670	2560	4060	550
9	550	260	160	120	100	90	90	800	2830	2700	3210	614
10	500	260	140	100	100	90	100	1000	3040	2820	2670	488
11	557	260	140	100	100	90	100	900	3570	2900	2770	442
12	722	260	140	100	100	90	100	900	3210	3150	2840	410
13	655	260	140	100	90	90	100	900	3070	3230	2400	433
14	599	220	140	100	90	90	100	800	3110	2950	2660	471
15	558	220	140	100	90	90	100	800	3300	2880	2540	530
16	552	220	140	100	90	90	100	800	3310	2800	2660	454
17	507	220	140	100	90	90	100	800	3080	2650	2620	420
18	487	220	140	100	90	90	100	800	2490	2680	2370	399
19	472	220	140	100	90	90	100	900	2310	2760	1930	499
20	479	220	140	100	90	90	100	900	2340	2690	1940	529
21	450	220	120	100	90	90	110	800	2440	2700	2030	662
22	450	180	120	100	90	90	110	800	2580	2810	2000	751
23	450	180	120	100	90	90	110	900	2580	3220	2060	650
24	400	180	120	100	90	90	110	1000	2600	3180	2260	575
25	400	180	120	100	90	90	120	800	2860	2880	2200	568
26	400	180	120	100	90	90	120	900	3050	2820	1980	558
27	400	180	120	100	90	90	120	1000	3000	2880	1740	515
28	350	180	120	100	90	90	140	1020	3230	2640	1460	532
29	350	180	120	100	90	90	140	1350	3180	2690	1390	500
30	350	180	120	100	---	90	160	1350	3010	3260	1340	450
31	350	---	120	100	---	90	---	1390	---	3070	1410	---
TOTAL	17147	7050	4300	3280	2730	2790	3150	24200	86110	87120	80710	18013
MEAN	553	235	139	106	94.1	90.0	105	781	2870	2810	2604	600
MAX	956	350	160	120	100	90	160	1390	3570	3260	4060	1190
MIN	350	180	120	100	90	90	90	160	1780	2040	1340	399
CFSM	1.98	.84	.50	.38	.34	.32	.38	2.79	10.3	10.0	9.30	2.14
IN.	2.28	.94	.57	.44	.36	.37	.42	3.22	11.44	11.57	10.72	2.39
AC-FT	34010	13980	8530	6510	5410	5530	6250	48000	170800	172800	160100	35730

CAL YR 1975 TOTAL 382258 MEAN 1047 MAX 4680 MIN 100 CFSM 3.74 IN 50.79 AC-FT 758200
WTR YR 1976 TOTAL 336600 MEAN 920 MAX 4060 MIN 90 CFSM 3.29 IN 44.72 AC-FT 667600

SOUTH-CENTRAL ALASKA

15292000 SUSITNA RIVER AT GOLD CREEK

LOCATION.--Lat 62°46'04", long 149°41'28", in NW¼ sec.20, T.31 N., R.2 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, near left bank under Alaska Railroad bridge, 0.1 mi (0.2 km) downstream from Gold Creek, 0.9 mi (1.4 km) north of Gold Creek railroad station, and 2.0 mi (3.2 km) downstream from Indian River.

DRAINAGE AREA.--6,160 mi^2 (15,950 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 676.50 ft (206.197 m) above mean sea level. Prior to June 6, 1957, nonrecording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mi (0.5 km) upstream at same datum.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 1 to May 12 and July 18 to Aug. 18, which are poor.

AVERAGE DISCHARGE.--27 years, 9,650 ft^3/s (273.3 m^3/s), 21.28 in/yr (541 mm/yr), 6,991,000 acre-ft/yr (8 62 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,700 ft^3/s (2,570 m^3/s) June 7, 1964, gage height, 16.58 ft (5.054 m); maximum gage height observed, 24.48 ft (7.462 m) May 10, 1954, ice jam; minimum daily discharge, about 600 ft^3/s (17.0 m^3/s) Feb. 16-20, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 35,700 ft^3/s (1,010 m^3/s) June 12, gage height, 12.08 ft (3.682 m), but may have been more during the period of no gage-height record Aug. 1-10; maximum gage height, 21.54 ft (6.565 m) about May 4, from floodmarks, backwater from ice jam; minimum daily discharge, about 900 ft^3/s (25 m^3/s) Mar. 1 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13000	3400	1200	1000	950	900	900	3800	17200	20600	20000	9200
2	12000	3200	1200	1000	950	900	900	4500	22200	22800	22000	9280
3	11000	3000	1200	1000	950	900	900	5500	26900	21500	26000	8640
4	10000	3000	1200	1000	950	900	900	6500	29500	19300	28000	8220
5	9000	2800	1200	1000	950	900	900	8000	29400	19100	32000	7770
6	8500	2600	1100	1000	950	900	900	10000	29300	16900	30000	7470
7	8500	2600	1100	1000	950	900	900	12000	27600	15100	28000	6480
8	9000	2400	1100	1000	950	900	900	15000	26900	16400	28000	6240
9	8500	2400	1100	1000	950	900	900	17000	24300	18800	28000	6570
10	8500	2200	1100	1000	950	900	900	16000	29900	19800	26000	6840
11	8500	2200	1100	1000	950	900	950	14000	33300	19200	22000	6810
12	9000	2000	1100	1000	950	900	950	13600	33200	19100	20000	6570
13	10000	2000	1100	1000	950	900	1000	15000	29900	20000	22000	6120
14	10000	2000	1100	1000	950	900	1000	14800	28300	21700	20000	5780
15	10000	1900	1100	1000	950	900	1000	13200	27600	19200	22000	5620
16	9500	1800	1100	950	950	900	1100	12600	26700	18400	20000	6000
17	9000	1700	1100	950	950	900	1100	11900	26000	19100	20000	6480
18	8500	1700	1100	950	950	900	1200	12700	22500	18000	20000	5920
19	8000	1600	1100	950	950	900	1200	13600	19400	18000	19200	5700
20	7000	1600	1100	950	950	900	1300	12700	18500	18000	17000	5980
21	6500	1500	1000	950	950	900	1300	12600	19100	18000	16000	6870
22	6000	1500	1000	950	950	900	1400	13100	21000	18000	15400	7620
23	5500	1400	1000	950	950	900	1500	14600	20600	20000	15000	8040
24	5000	1400	1000	950	950	900	1700	15100	19900	20000	14000	777[illegible]
25	4800	1400	1000	950	950	900	1900	14900	19600	20000	14000	71[illegible]
26	4600	1300	1000	950	950	900	2200	15100	20300	18000	13900	6660
27	4400	1300	1000	950	950	900	2400	15500	20400	18000	13000	6480
28	4200	1300	1000	950	950	900	2600	14500	21000	18000	11900	6270
29	4000	1300	1000	950	950	900	3000	13400	20900	18000	11100	6060
30	3800	1300	1000	950	---	900	3400	14700	20000	18000	9840	5800
31	3600	---	1000	950	---	900	---	15400	---	20000	9340	---
TOTAL	239900	59800	33500	30200	27550	27900	41200	391300	731400	587000	613680	206430
MEAN	7739	1993	1081	974	950	900	1373	12620	24380	18940	19800	6881
MAX	13000	3400	1200	1000	950	900	3400	17000	33300	22800	32000	9280
MIN	3600	1300	1000	950	950	900	900	3800	17200	15100	9340	5620
CFSM	1.26	.32	.18	.16	.15	.15	.22	2.05	3.96	3.07	3.21	1.12
IN.	1.45	.36	.20	.18	.17	.17	.25	2.36	4.42	3.54	3.71	1.25
AC-FT	475800	118600	66450	59900	54650	55340	81720	776100	1451000	1164000	1217000	409500

CAL YR 1975 TOTAL 3867200 MEAN 10600 MAX 44000 MIN 1000 CFSM 1.72 IN 23.35 AC-FT 7671000
WTR YR 1976 TOTAL 2989860 MEAN 8169 MAX 33300 MIN 900 CFSM 1.33 IN 18.06 AC-FT 5930000

15292000 SUSITNA RIVER AT GOLD CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-58, 1962, 1967-68, 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to September 1957, July 1974 to current year (seasonal).
SUSPENDED-SEDIMENT DISCHARGE: May to September 1952, June to September 1957.

INSTRUMENTATION.--Temperature recorder since July 30, 1974.

REMARKS.--No record Oct. 1 to May 10, July 6, Aug. 21 to Sept. 3, and Sept. 14-30. Sporadic record July 18 to Aug. 20.

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAY 12...	1030	14200	1.0	--	365	14000	9	11	15
JUN 09...	1430	24700	5.0	--	401	26700	6	6	9
JUL 07...	1500	14600	10.0	90	221	8710	--	--	--
AUG 19...	1530	18600	10.5	--	454	22800	13	17	24

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAY 12...	21	34	48	52	68	99	100	--
JUN 09...	12	17	24	28	40	81	97	100
JUL 07...	--	--	67	76	84	96	98	100
AUG 19...	33	43	54	65	81	98	100	--

15292000 SUSITNA RIVER AT GOLD CREEK--Continued

TEMPERATURE (DEG. C) OF WATER, MAY TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	6.5	2.5	9.5	8.0	---	---	---	---
2			---	---	6.0	2.5	10.0	8.0	---	---	---	---
3			---	---	6.0	3.0	9.5	8.0	---	---	---	---
4			---	---	6.0	3.0	8.5	6.5	---	12.0	10.5	8.0
5			---	---	4.5	3.5	7.5	6.0	13.0	12.5	11.0	7.5
6			---	---	5.0	3.5	---	---	---	11.5	11.0	8.0
7			---	---	5.5	3.5	12.0	11.0	---	11.0	10.5	8.0
8			---	---	5.5	3.0	13.5	10.0	11.5	10.5	11.0	9.5
9			---	---	5.5	3.5	13.0	[illegible]	10.5	9.5	11.5	9.0
10			---	---	6.0	3.5	13.5	10.0	---	9.5	11.0	9.5
11			1.0	0.5	6.5	3.5	13.5	10.5	---	10.5	10.5	8.5
12			1.0	0.5	7.0	3.5	11.5	10.5	---	---	10.5	9.5
13			1.0	0.5	7.5	4.0	11.5	10.5	---	10.5	---	7.0
14			1.5	0.5	8.0	5.0	11.0	10.5	---	---	---	---
15			2.0	0.5	8.5	5.5	12.0	10.5	---	12.0	---	---
16			2.0	0.5	7.5	4.0	12.5	9.5	---	9.5	---	---
17			2.5	0.5	6.5	5.0	13.0	9.5	---	9.5	---	---
18			2.5	1.5	7.5	4.5	---	9.5	---	---	---	---
19			2.5	1.0	8.5	5.0	---	11.0	11.0	9.5	---	---
20			3.5	1.5	8.5	5.0	---	10.5	---	7.5	---	---
21			3.5	2.5	9.5	4.0	---	10.0	---	---	---	---
22			4.0	2.5	7.5	6.0	13.5	10.0	---	---	---	---
23			3.0	2.5	9.0	6.5	12.0	10.5	---	---	---	---
24			4.0	2.0	10.5	6.5	11.5	10.0	---	---	---	---
25			5.0	2.0	10.5	7.5	---	10.0	---	---	---	---
26			5.0	3.5	12.0	8.0	---	10.5	---	---	---	---
27			4.5	3.0	12.0	8.5	---	10.0	---	---	---	---
28			5.5	3.5	11.5	9.0	---	---	---	---	---	---
29			6.0	3.0	12.0	9.5	---	10.5	---	---	---	---
30			6.0	3.5	12.5	9.0	---	11.5	---	---	---	---
31			7.0	2.5	---	---	---	11.0	---	---	---	---
MONTH			---	---	12.5	2.5	---	6.0	---	---	---	---

15292700 TALKEETNA RIVER NEAR TALKEETNA
(Hydrologic bench-mark station)

LOCATION.--Lat 62°20'49", long 150°01'01", in NE¼ sec.16, T.26 N., R.4 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank 1.7 mi (2.7 km) downstream from Chunilna Creek, 3.5 mi (5.6 km) northeast of Talkeetna, and about 5 mi (8 km) above mouth.

DRAINAGE AREA.--2,007 mi^2 (5,196 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (120 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Oct. 17 to May 14, which are poor.

AVERAGE DISCHARGE.--12 years, 4,028 ft^3/s (114.1 m^3/s), 27.27 in/yr (693 mm/yr), 2,918,000 acre-ft/yr (3.60 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft^3/s (1,910 m^3/s) Aug. 10, 1971, gage height, 16.35 ft (4.983 m); minimum daily, about 380 ft^3/s (10.8 m^3/s) Feb. 21 to Apr. 10, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,700 ft^3/s (586 m^3/s) June 11, gage height, 9.49 (2.893 m); minimum daily, about 460 ft^3/s (13 m^3/s) Mar. 16 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5100	1100	600	550	480	480	460	1300	6040	9640	9640	4010
2	4800	1100	600	550	480	480	460	1500	8020	10200	10000	3770
3	4580	1000	600	550	480	480	460	1700	9800	8240	9400	3590
4	4380	1000	600	550	480	480	460	2000	11100	7450	10200	3350
5	4460	1000	600	550	480	480	460	2400	12000	7840	9840	3220
6	4180	900	550	550	480	480	460	3000	11600	6310	8020	3030
7	3880	900	550	550	480	480	460	3500	9960	6610	7990	2890
8	3700	900	550	550	480	480	460	4500	9680	6940	8760	3200
9	3260	900	550	550	480	480	460	5000	10600	8240	8440	3550
10	3320	800	550	550	480	480	460	4000	14600	8840	8140	3430
11	3420	800	550	550	480	480	500	3500	17200	8920	8440	3270
12	3720	800	550	550	480	480	500	3500	16200	9520	9520	3100
13	3620	800	550	550	480	480	500	3500	15200	11000	11700	3000
14	3440	800	550	550	480	480	500	3000	14000	10500	10300	2800
15	3360	800	550	550	480	480	500	2960	14900	8480	8920	3000
16	3180	700	550	500	480	460	600	3030	13100	9200	9200	3220
17	3000	700	550	500	480	460	600	3080	13400	14400	11500	3050
18	2700	700	550	500	480	460	600	3550	10700	12800	10300	2860
19	2500	700	550	500	480	460	600	3570	8050	10300	8760	3060
20	2200	700	550	500	480	460	600	3510	7420	8960	7930	3290
21	2000	700	550	500	480	460	700	3630	7180	7840	7570	3690
22	1900	600	550	500	480	460	700	4150	8320	7810	7000	3750
23	1800	600	550	500	480	460	700	4150	7060	9560	6490	3650
24	1600	600	550	500	480	460	700	3810	7060	10400	6520	3290
25	1500	600	550	500	480	460	800	3550	8400	10200	6670	3080
26	1400	600	550	500	480	460	800	3790	9120	8640	6190	3000
27	1400	600	550	500	480	460	900	4110	9240	8280	5200	2900
28	1300	600	550	500	480	460	900	3970	9640	7750	4980	2800
29	1300	600	550	500	480	460	1000	4130	9160	7540	4680	2700
30	1200	600	550	500	---	460	1100	4480	8720	8760	4250	2600
31	1200	---	550	500	---	460	---	4750	---	8640	4190	---
TOTAL	89400	23200	17300	16250	13920	14560	18400	106620	317470	279810	250740	96150
MEAN	2884	773	558	524	480	470	613	3439	10580	9026	8088	3205
MAX	5100	1100	600	550	480	480	1100	5000	17200	14400	11700	4010
MIN	1200	600	550	500	480	460	460	1300	6040	6310	4190	2600
CFSM	1.44	.39	.28	.26	.24	.23	.31	1.71	5.27	4.50	4.03	1.60
IN.	1.66	.43	.32	.30	.26	.27	.34	1.98	5.89	5.19	4.65	1.78
AC-FT	177300	46020	34310	32230	27610	28880	36500	211500	629700	555000	497300	190700

CAL YR 1975 TOTAL 1597390 MEAN 4376 MAX 18600 MIN 500 CFSM 2.18 IN 29.62 AC-FT 3168000
WTR YR 1976 TOTAL 1243820 MEAN 3398 MAX 17200 MIN 460 CFSM 1.69 IN 23.07 AC-FT 2467000

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT 08...	1000	3850	--	7.8	--	2.0	--	1	12.4	#4
DEC 17...	1530	541	182	6.5	.0	.0	--	0	12.5	#3
FEB 13...	1400	477	210	7.5	-4.5	.0	<5	1	12.7	#8
APR 06...	1400	465	226	7.5	--	.0	--	1	13.5	#3
JUN 08...	1330	9780	50	7.4	--	5.0	--	6	12.6	#4
JUL 08...	1100	7590	75	7.5	--	11.0	--	--	--	#5
AUG 20...	1300	7700	90	7.8	--	9.5	20	40	--	#11

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT 08...	#1	--	46	7	15	2.1	6.7	.8	48	--
DEC 17...	<1	#1	64	15	22	2.3	12	1.5	60	0
FEB 13...	#2	<1	65	15	22	2.5	14	1.7	61	0
APR 06...	#1	<1	74	22	25	2.9	15	1.8	64	0
JUN 08...	#1	#1	22	1	7.0	1.0	2.8	.5	25	0
JUL 08...	#11	#5	28	1	9.4	1.2	3.6	.7	33	0
AUG 20...	#4	#1	42	9	14	1.6	4.0	.9	40	0

# Non-ideal colony count

DATE	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 08...	1.2	9.5	8.0	.0	7.5	77	73	.42	.00
DEC 17...	30	13	21	.1	8.7	118	110	.41	.00
FEB 13...	3.1	13	26	.1	8.1	130	117	.45	.04
APR 06...	3.2	15	33	.1	8.9	135	133	.44	.00
JUN 08...	1.6	3.6	4.7	.1	5.1	50	37	.31	.07
JUL 08...	1.7	7.0	5.1	.1	4.3	46	48	.22	.12
AUG 20...	1.0	9.3	5.7	.1	5.4	62	61	.17	.07

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)
OCT 08...	1000	1	0	10	10	0	150	<100	10	.1	0	0
JUN 08...	1330	0	0	1	10	40	2800	23	40	<.5	0	0
AUG 20...	1300	1	0	<10	0	20	3100	<100	90	.1	0	<10

DATE	TOTAL ZINC (ZN) (UG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
OCT 08...	10	76	1	2.5	<.4	1.6	<.4	1.3	<.4	.04	--	.10
JUN 08...	230	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	20	54	--	.6	1.7	1.4	2.3	1.1	1.9	.02	.1	--

DATE	TIME	CYANIDE (CN) (MG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)
OCT 08...	1000	.00	.0	0	.00	.0	.0	0	.00	.0	.00
JUN 08...	1330	.00	--	--	--	--	--	--	--	--	--
AUG 20...	1300	.00	--	--	--	--	--	--	--	--	--

DATE	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)
OCT 08...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	--
JUN 08...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	.00	.0	--	--	--	--	.00	.0

DATE	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)
OCT 08...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
JUN 08...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	.00	.0	.00	.0	.00

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 08...	--	.00	.0	0	0	.00	--	.00	.00	.00
JUN 08...	--	--	--	--	--	--	--	--	--	--
AUG 20...	.0	.00	.0	--	--	.00	.0	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT 08...	1000	3850	--	2.0	1	17	177	--	--
DEC 17...	1530	541	.0	.0	0	4	5.8	--	--
FEB 13...	1400	477	-4.5	.0	1	2	2.6	--	--
APR 06...	1400	465	--	.0	1	1	1.3	--	--
JUN 08...	1330	9780	--	5.0	6	102	2690	--	--
JUL 08...	1100	7590	--	11.0	--	356	7300	--	--
AUG 20...	1300	7700	--	9.5	40	414	8610	6	8

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT 08...	--	--	--	10	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--
APR 06...	--	--	--	--	--	--	--	--
JUN 08...	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	48	56	71	94	100
AUG 20...	10	13	18	28	45	69	87	100

15294300 SKWENTNA RIVER NEAR SKWENTNA

LOCATION.--Lat 61°52'23", long 151°22'01", in NW¼ sec.31, T.21 N., R.11 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank 2 mi (3 km) downstream from Shell Creek, 8 mi (13 km) southwest of Skwentna, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--2,250 mi^2 (5,830 km^2), approximately.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WSP 1936: 1960.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m), from topographic map.

REMARKS.--Records fair except those for the period of no gage-height record, Oct. 26 to Aug. 2, which are poor. Gage destroyed by ice May 11, 1976 and stage-discharge relation developed at supplementary nonrecording gage located 11 mi (18 km) downstream near Skwentna airport at different datum. Summer flows augmented by glaciers that cover 16 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 6,156 ft^3/s (174.3 m^3/s), 37.16 in/yr (944 mm/yr), 4,460,000 acre-ft/yr (5.50 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,000 ft^3/s (1,420 m^3/s) June 25, 1971, gage height, 14.74 ft (4.493 m) from rating curve extended above 27,000 ft^3/s (760 m^3/s); minimum daily, about 600 ft^3/s (17.0 m^3/s) Mar. 1-31, 1964, Dec. 16, 1968 to Mar. 15, 1969, Mar. 9 to Apr. 26, 1971, and Mar. 5 to Apr. 5, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,200 ft^3/s (685 m^3/s) Sept. 21, gage height undetermined, but estimated to be about 12 ft (3.7 m) based on stage-discharge relation at gage and at supplementary gage 11 mi (18 km) downstream; minimum daily, about 800 ft^3/s (23 m^3/s) Feb. 29 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6370	2600	1400	1000	900	800	800	5000	9000	16000	15000	5960
2	5850	2600	1400	1000	900	800	800	7000	9500	16000	17000	5710
3	5500	2600	1400	1000	900	800	800	10000	10000	16000	18500	5200
4	5280	2600	1400	1000	900	800	800	11000	11000	14000	18300	4950
5	5350	2200	1400	1000	900	800	800	12000	12000	14000	17600	4600
6	5100	2200	1400	1000	900	800	800	12000	14000	12000	15000	4550
7	4820	2200	1400	1000	900	800	800	11000	14000	12000	13400	4370
8	4600	2200	1400	1000	900	800	800	10000	13000	12000	12400	6110
9	4150	2200	1400	1000	900	800	800	9500	13000	15000	12300	5110
10	4480	2200	1400	1000	900	800	800	9000	16000	15000	10700	5110
11	4480	2200	1400	1000	900	800	900	8500	22000	15000	10200	4560
12	5450	2200	1200	1000	900	800	900	8500	21000	17000	10300	4340
13	7480	2200	1200	1000	900	800	900	8000	20000	17000	10400	4200
14	7930	1800	1200	1000	900	800	900	8000	19000	16000	10900	4370
15	7900	1800	1200	1000	900	800	900	8000	19000	15000	10100	6880
16	6340	1800	1200	1000	900	800	1000	8000	18000	15000	9050	6150
17	5400	1800	1200	1000	900	800	1000	8000	17000	17000	9740	6740
18	4950	1800	1200	1000	900	800	1000	9000	16000	17000	10900	7850
19	4420	1800	1200	1000	900	800	1000	9000	15000	17000	11200	9080
20	3830	1800	1200	1000	900	800	1200	9000	13000	15000	9380	9680
21	3790	1800	1200	1000	900	800	1200	8000	13000	13000	9140	22100
22	3470	1800	1200	1000	900	800	1200	8000	13000	13000	9080	22300
23	3760	1600	1200	900	900	800	1400	8000	13000	14900	9680	17300
24	3900	1600	1200	900	900	800	1400	8000	14000	15000	10100	13100
25	3520	1600	1200	900	900	800	1600	9000	15000	15000	9800	10800
26	3500	1600	1200	900	900	800	1800	9000	16000	15000	9260	10300
27	3000	1600	1200	900	900	800	2200	9000	17000	14000	8090	9080
28	3000	1600	1200	900	900	800	2600	9000	17000	12000	7820	8510
29	3000	1600	1200	900	800	800	3000	8000	17000	12000	6820	8570
30	2600	1600	1000	900	---	800	4000	8000	17000	12000	6510	7360
31	2600	---	1000	900	---	800	---	8500	---	13000	6150	---
TOTAL	145820	59200	39000	30100	26000	24800	38100	273000	453500	451900	344820	244940
MEAN	4704	1973	1258	971	897	800	1270	8806	15120	14580	11120	8165
MAX	7930	2600	1400	1000	900	800	4000	12000	22000	17000	18500	22300
MIN	2600	1600	1000	900	800	800	800	5000	9000	12000	6150	4200
CFSM	2.09	.88	.56	.43	.40	.36	.56	3.91	6.72	6.48	4.94	3.63
IN.	2.41	.98	.64	.50	.43	.41	.63	4.51	7.50	7.47	5.70	4.05
AC-FT	289200	117400	77360	59700	51570	49190	75570	541500	899500	896300	684000	485800

CAL YR 1975 TOTAL 2373760 MEAN 6503 MAX 31000 MIN 750 CFSM 2.89 IN 39.25 AC-FT 4708000
WTR YR 1976 TOTAL 2131180 MEAN 5823 MAX 22300 MIN 800 CFSM 2.59 IN 35.24 AC-FT 4227000

15294350 SUSITNA RIVER AT SUSITNA STATION
(National stream-quality accounting network station)

LOCATION.--Lat 61°32'41", long 150°30'45", in SE¼SE¼ sec.22, T.17 N., R.7 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank at Susitna Station, 1.5 mi (2.4 km) downstream from Yentna River, and 12.5 mi (20.1 km) upstream from Alexander Creek.

DRAINAGE AREA.--19,400 mi^2 (50,200 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

REMARKS.--Water-discharge records fair except those for period of no gage-height record, Oct. 20 to May 27, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 173,000 ft^3/s (4,900 m^3/s) July 1, 1975, gage height, 17.44 ft (5.316 m); minimum daily, about 5,200 ft^3/s (147 m^3/s) Feb. 21 to Mar. 5, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147,000 ft^3/s (4,160 m^3/s) July 3, gage height, 15.93 ft (4.855 m); minimum daily, about 5,200 ft^3/s (147 m^3/s) Feb. 21 to Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61000	16000	6000	6400	6000	5200	5400	30000	61800	129000	111000	54100
2	54100	16000	6000	6400	6000	5200	5400	40000	68300	138000	119000	50900
3	48800	14000	6000	6400	6000	5200	5400	54000	77900	146000	126000	47200
4	41500	14000	6000	6400	6000	5200	5400	70000	86000	133000	133000	43500
5	39000	14000	6000	6400	6000	5200	5400	90000	92400	119000	138000	41000
6	37800	14000	6000	6400	6000	5400	5400	110000	99900	114000	130000	39000
7	35900	12000	6000	6400	6000	5400	5400	115000	105000	102000	115000	38000
8	33600	12000	6000	6400	6000	5400	5400	115000	95800	105000	114000	37000
9	32600	12000	6000	6400	6000	5400	5400	110000	92800	112000	117000	37000
10	31000	12000	6000	6400	6000	5400	5400	98600	94700	121000	114000	39000
11	31200	10000	6000	6800	5600	5400	5400	70000	111000	125000	102000	40000
12	32000	10000	6000	6800	5600	5400	5400	68000	125000	126000	100000	41000
13	37100	10000	6000	6800	5600	5400	5400	67600	131000	128000	102000	39000
14	39100	9500	6000	6800	5600	5400	5400	66000	129000	126000	105000	37000
15	36100	9500	6000	6800	5600	5400	5400	64000	129000	119000	104000	38000
16	35000	9000	6000	6800	5600	5400	5400	66000	131000	113000	99600	40000
17	34100	9000	6000	6800	5600	5400	5600	68000	129000	116000	101000	42000
18	31500	8500	6000	6800	5600	5400	5600	68000	125000	124000	107000	41000
19	30600	8500	6000	6800	5600	5400	5800	66000	113000	120000	108000	42000
20	28000	8000	6000	6800	5600	5400	6000	60000	104000	113000	96400	45700
21	26000	8000	6000	6400	5200	5400	6200	60000	102000	111000	89200	65500
22	24000	7500	6000	6400	5200	5400	6400	62000	102000	110000	85700	93800
23	24000	7500	6000	6400	5200	5400	6600	63000	106000	109000	84400	84500
24	22000	7000	6000	6400	5200	5400	7000	64000	98800	112000	84200	74000
25	22000	7000	6000	6400	5200	5400	8000	64000	97600	110000	83800	61800
26	20000	7000	6000	6400	5200	5400	9000	66000	108000	103000	84400	55300
27	20000	6500	6000	6400	5200	5400	11000	70000	115000	101000	79400	52700
28	18000	6500	6000	6400	5200	5400	15000	63100	122000	97700	71000	49400
29	18000	6500	6000	6400	5200	5400	17000	58900	128000	95000	66900	49100
30	18000	6500	6000	6400	---	5400	22000	57100	129000	93400	61300	48800
31	16000	---	6000	6400	---	5400	---	59900	---	102000	56800	---
TOTAL	978000	298000	186000	202400	162800	166400	217600	2184200	3210000	3572100	3089100	1467300
MEAN	31550	9933	6000	6529	5614	5368	7253	70460	107000	115200	99650	48910
MAX	61000	16000	6000	6800	6000	5400	22000	115000	131000	146000	138000	93800
MIN	16000	6500	6000	6400	5200	5200	5400	30000	61800	93400	56800	37000
CFSM	1.63	.51	.31	.34	.29	.28	.37	3.63	5.52	5.94	5.14	2.52
IN.	1.88	.57	.36	.39	.31	.32	.42	4.19	6.16	6.85	5.92	2.81
AC-FT	1940000	591100	368900	401500	322900	330100	431600	4332000	6367000	7085000	6127000	2910000

CAL YR 1975 TOTAL 17079600 MEAN 46790 MAX 171000 MIN 6000 CFSM 2.41 IN 32.75 AC-FT 33880000
WTR YR 1976 TOTAL 15733900 MEAN 42990 MAX 146000 MIN 5200 CFSM 2.22 IN 30.17 AC-FT 31210000

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1970, 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1975 to current year.

INSTRUMENTATION.--Temperature recorder since May 23, 1975.

REMARKS.--No record Dec. 7 to Apr. 11 when gage was shut down in winter.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 16.5°C July 9, 1976; minimum, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 16.5°C July 9; minimum, 0.0°C on most days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT 03...	1230	47500	137	--	--	5.0	--	6	--	#3
DEC 12...	1330	6060	225	7.2	-17.0	.0	--	2	--	#1
JAN 16...	1330	6770	210	7.4	-.5	.0	0	2	--	#1
FEB 25...	1300	5140	220	7.9	--	.0	<5	2	--	#2
MAR 17...	1400	5380	210	7.3	-3.0	.0	<5	2	--	#5
APR 12...	1530	5450	210	7.4	--	.0	--	2	--	#5
MAY 28...	1430	67900	90	6.9	12.5	6.5	--	50	--	#3
JUL 26...	1400	99100	115	8.0	22.0	12.0	<5	230	--	#15
AUG 30...	1100	56100	125	7.0	15.5	8.0	10	125	11.3	#13

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT 03...	#8	56	9	18	2.6	3.8	1.3	57	--	--
DEC 12...	24	96	23	31	4.6	8.6	2.0	90	0	9.1
JAN 16...	#5	83	12	26	4.3	8.8	2.1	86	0	4.9
FEB 25...	#6	84	13	27	4.1	8.4	1.8	87	0	1.8
MAR 17...	#2	82	12	25	4.8	8.9	1.9	85	--	6.8
APR 12...	<1	90	18	28	4.9	7.4	1.7	88	0	5.6
MAY 28...	#4	40	8	13	1.8	2.4	.8	39	0	7.9
JUL 26...	#26	52	7	17	2.3	1.9	1.5	55	0	.9
AUG 30...	#9	59	18	19	2.7	2.7	1.5	50	0	8.0

# Non-ideal colony count

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 03...	13	3.8	.1	6.7	86	78	.67	.44	1.1	.10
DEC 12...	19	14	.2	9.7	139	133	.28	.30	.58	.00
JAN 16...	18	14	.2	9.3	124	125	.29	.39	.68	.01
FEB 25...	17	14	.1	9.2	130	125	.29	.00	.29	.00
MAR 17...	15	15	.2	10	117	123	.48	.51	.99	.01
APR 12...	17	11	.2	9.5	131	123	.26	.00	.26	.15
MAY 28...	6.9	4.6	.1	6.1	71	55	.38	.43	.81	.14
JUL 26...	11	2.1	.1	3.4	63	66	.03	.40	.43	.57
AUG 30...	14	3.5	.1	4.6	86	73	.47	.16	.63	.21

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
OCT 03...	1230	5	4	1	10	10	0	20	10	10	<50
MAR 17...	1400	1	1	0	10	10	0	0	0	0	<50
MAY 28...	1430	5	5	0	2	1	1	<10	<10	<0	2
JUL 26...	1400	7	6	1	<10	<10	0	40	40	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT 03...	<50	0	20	15	5	3800	120	<100	<97	3	110
MAR 17...	<48	2	10	8	2	240	60	<100	<99	1	30
MAY 28...	2	0	40	30	10	3300	140	16	11	5	100
JUL 26...	<48	2	50	50	0	26000	30	<100	<98	2	540

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT 03...	100	10	.2	.0	.2	0	0	0	10	0	10
MAR 17...	0	30	.0	.0	.1	1	0	1	30	30	0
MAY 28...	100	0	<.5	.0	<.5	0	0	0	20	20	0
JUL 26...	540	0	.3	.3	.0	1	0	1	100	100	0

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	SIMAZINE TOTAL((UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ATRAZINE (UG/L)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	DISSOLVED DDE (UG/L)	TOTAL DDE (UG/L)
OCT 03...	1230	3.4	--	--	ND	--	--	ND	--	ND	--	--
JAN 16...	1330	--	--	ND	--	ND	ND	--	ND	--	--	ND
MAR 17...	1400	.4	--	ND	--	ND	ND	--	--	--	ND	ND
MAY 28...	1430	5.3	--	ND	--	ND	ND	--	ND	--	--	ND
JUL 26...	1400	2.8	ND	ND	--	ND	ND	--	ND	--	--	ND

DATE	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)
OCT 03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
JAN 16...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY 28...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
JUL 26...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHOXYCHLOR (UG/L)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)
OCT 03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
JAN 16...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 28...	--	ND	--	ND	--	ND	--	ND	--	ND	--
JUL 26...	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 03...	--	ND	--	ND	--	ND	--	ND	--	--	--
JAN 16...	ND	--	ND	--	ND	--	ND	--	ND	ND	ND
MAR 17...	ND	--	ND	--	--	--	ND	--	ND	ND	ND
MAY 28...	ND	--	ND	--	ND	--	ND	--	ND	ND	ND
JUL 26...	ND	--	ND	--	ND	--	ND	--	ND	ND	ND

ND Material specifically analyzed for but not detected

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M
OCT 03...	1230	37	66	4.70	5.60	.000	1.20
DEC 12...	1330	--	8	--	--	--	--
JAN 16...	1330	--	4	--	--	--	--
FEB 25...	1300	--	0	--	--	--	--
MAR 17...	1400	--	33	--	--	--	--
APR 12...	1530	--	99	--	--	--	--
MAY 28...	1430	--	320	--	--	--	--
JUL 26...	1400	--	0	--	--	--	--
AUG 30...	1100	35	120	.846	1.08	.080	.511

PHYTOPLANKTON

DATE	TIME		_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
OCT 3	1230		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
			....H.ARCUS		7	11	
			...ACHNANTHACEAE				
			....ACHNANTHES		7	11	
			...CYMBELLACEAE				
			....CYMBELLA		7	11	
			...DIATOMACEAE				
		D	....DIATOMA		15	22	
			...GOMPHONEMATACEAE				
			....GOMPHONEMA		7	11	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		7	11	
			...NITZSCHIACEAE				
		D	....NITZSCHIA		15	22	
				TOTALS	66	99	
			TOTAL		66		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME		_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
DEC 12	1330		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..CENTRALES	CENTRIC			
			...COSCINODISCACEAE				
		D	....MELOSIRA		5	67	
			..PENNALES	PENNATE			
			...EUNOTIACEAE				
		L	....EUNOTIA			0	
			...FRAGILARIACEAE				
		D	....SYNEDRA		3	33	
			...NAVICULACEAE	NAVICULOID			
		L	....NAVICULA			0	
				TOTALS	8	100	
			TOTAL		8		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	_ORGANISM__NAME_______________	_COMMON__NAME______	CELLS/ML	PER_CENT	SAMPLING METHOD
JAN 16	1330	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
		....M.ARCUS				
		L .....M.ARCUS			0	
		...EUNOTIACEAE				
		D ....EUNOTIA		4	100	
			TOTALS	4	100	
		TOTAL		4		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

DATE	TIME	- - - NO ORGANISMS REPORTED - - -	SAMPLING METHOD
FEB 25	1300		SEDIMENT SAMPLER

DATE	TIME	_ORGANISM__NAME_______________	_COMMON__NAME______	CELLS/ML	PER_CENT	SAMPLING METHOD
MAR 17	1400	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...DIATOMACEAE				
		D ....DIATOMA		8	25	
		...FRAGILARIACEAE				
		D ....FRAGILARIA		8	25	
		...GOMPHONEMATACEAE				
		L ....GOMPHONEMA			0	
		...NAVICULACEAE	NAVICULOID			
		D ....NAVICULA		8	25	
			TOTALS	25	75	
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...NOSTOCACEAE				
		D ....ANABAENA		8	25	
			TOTALS	8	25	
		TOTAL		33		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

DATE	TIME	_ORGANISM__NAME_______________	_COMMON__NAME______	CELLS/ML	PER_CENT	SAMPLING METHOD
APR 12	1530	CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
		.CHLOROPHYCEAE				
		..VOLVOCALES				
		...HAEMATOCOCCACEAE				
		....HAEMATOCOCCUS		13	13	
			TOTALS	13	13	
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		L ....MELOSIRA			0	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		L ....ACHNANTHES			0	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		7	7	
		...NITZSCHIACEAE				
		....NITZSCHIA		7	7	
			TOTALS	13	14	
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
		D ....LYNGBYA		46	47	
			TOTALS	46	47	
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		D ....TRACHELOMONAS		27	27	
			TOTALS	27	27	
		TOTAL		99		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		_ORGANISM__NAME_	_COMMON__NAME_	CELLS/ML	PER_CENT	SAMPLING METHOD
MAY 28	1430		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
			....H.ARCUS		35	11	
			..CENTRALES	CENTRIC			
			...COSCINODISCACEAE				
			....MELOSIRA		9	3	
			..PENNALES	PENNATE			
			...ACHNANTHACEAE				
		D	....ACHNANTHES		52	16	
			....COCCONEIS		9	3	
			...DIATOMACEAE				
			....DIATOMA		43	14	
			...FRAGILARIACEAE				
			....FRAGILARIA		26	8	
			....SYNEDRA		26	8	
			...GOMPHONEMATACEAE				
			....GOMPHONEMA		43	14	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		43	14	
			....STAURONEIS		9	3	
			...NITZSCHIACEAE				
			....NITZSCHIA		26	8	
				TOTALS	320	102	
			TOTAL		320		
			NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%				
JUL 26	1400		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
		L	....SYNEDRA			0	
			TOTAL			0	
			NOTE: L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED				
AUG 30	1100		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...ACHNANTHACEAE				
		D	....ACHNANTHES		26	22	
			....RHOICOSPHENIA		13	11	
			...CYMBELLACEAE				
			....CYMBELLA		13	11	
			...NAVICULACEAE	NAVICULOID			
		D	....NAVICULA		39	33	
			...NITZSCHIACEAE				
		D	....NITZSCHIA		26	22	
				TOTALS	120	99	
			TOTAL		120		
			NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%				

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT 03...	1230	47500	--	5.0	6	159	20400	--	--
DEC 12...	1330	6060	-17.0	.0	2	6	98	--	--
JAN 16...	1330	6770	-.5	.0	2	3	55	--	--
FEB 25...	1300	5140	--	.0	2	4	56	--	--
MAR 17...	1400	5380	-3.0	.0	2	2	29	--	--
APR 12...	1530	5450	--	.0	2	3	44	--	--
MAY 28...	1430	67900	12.5	6.5	50	257	47100	11	14
JUL 26...	1400	99100	22.0	12.0	230	785	210000	19	29
AUG 30...	1100	56100	15.5	8.0	125	452	68500	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT 03...	--	--	--	--	--	--	--	--
DEC 12...	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--
FEB 25...	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--
MAY 28...	19	26	34	41	48	74	99	100
JUL 26...	40	52	62	70	78	92	100	--
AUG 30...	--	--	--	58	--	--	--	--

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

TEMPERATURE (DEG. C) OF WATER. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	0.5	0.5	0.0	0.0						
2	6.0	5.5	0.5	0.5	0.0	0.0						
3	5.5	4.5	0.5	0.5	0.0	0.0						
4	4.5	4.0	0.5	0.5	0.0	0.0						
5	4.5	4.5	0.5	0.5	0.0	0.0						
6	4.5	4.5	0.5	0.5	0.0	0.0						
7	4.5	3.5	0.5	0.5	---	---						
8	3.5	3.0	0.5	0.5	---	---						
9	3.0	2.5	0.5	0.5	---	---						
10	2.5	1.5	0.5	0.5	---	---						
11	1.5	1.5	0.5	0.5	---	---						
12	2.0	1.5	0.5	0.5	---	---						
13	2.5	2.0	0.5	0.5	---	---						
14	2.5	2.5	0.5	0.5	---	---						
15	3.0	2.5	0.5	0.5	---	---						
16	3.0	3.0	0.5	0.5	---	---						
17	2.5	2.5	0.5	0.5	---	---						
18	2.5	2.0	0.5	0.5	---	---						
19	2.0	1.5	0.5	0.5	---	---						
20	1.5	1.0	0.5	0.5	---	---						
21	1.0	1.0	0.5	0.5	---	---						
22	1.0	1.0	0.5	0.5	---	---						
23	1.0	1.0	0.5	0.5	---	---						
24	1.0	1.0	0.5	0.0	---	---						
25	1.0	1.0	0.5	0.5	---	---						
26	1.0	1.0	0.5	0.5	---	---						
27	1.0	0.5	0.5	0.0	---	---						
28	0.5	0.5	0.0	0.0	---	---						
29	0.5	0.5	0.0	0.0	---	---						
30	0.5	0.5	0.0	0.0	---	---						
31	0.5	0.5	---	---	---	---						
MONTH	6.5	0.5	0.5	0.0	---	---						

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	0.5	0.5	11.0	8.0	15.0	13.0	11.5	10.5	8.5	8.5
2	---	---	0.5	0.5	11.0	8.0	12.5	10.5	12.0	11.5	8.5	8.5
3	---	---	0.5	0.5	10.5	8.0	11.5	9.5	12.0	11.5	8.5	8.0
4	---	---	0.5	0.5	11.0	8.5	11.5	8.5	11.5	11.5	8.0	8.0
5	---	---	0.5	0.5	10.5	8.0	8.5	7.5	12.0	11.5	8.0	8.0
6	---	---	0.5	0.5	8.0	6.5	11.0	7.0	12.0	11.5	8.0	7.5
7	---	---	0.5	0.5	8.0	6.5	15.0	10.5	11.5	10.5	7.5	7.5
8	---	---	0.5	0.5	9.0	7.0	15.5	13.5	10.5	10.5	7.5	7.0
9	---	---	0.5	0.5	9.0	7.5	16.5	14.0	10.5	10.0	7.0	7.0
10	---	---	1.0	0.5	10.0	7.5	16.0	14.0	10.5	9.5	7.0	7.0
11	---	---	1.0	0.5	12.5	9.0	15.5	13.5	11.5	10.5	7.0	7.0
12	0.5	0.5	1.5	1.0	13.0	9.5	15.0	13.5	11.5	11.0	7.0	7.0
13	0.5	0.0	1.5	1.0	12.5	10.0	13.5	12.0	11.0	10.0	7.0	7.0
14	0.5	0.0	1.0	1.0	13.5	10.0	12.0	11.5	10.0	10.0	7.0	7.0
15	0.5	0.5	1.5	1.0	13.5	11.5	11.5	11.5	10.0	10.0	7.0	7.0
16	0.5	0.5	2.0	1.5	13.5	10.5	12.0	11.0	10.0	9.5	7.0	7.0
17	0.5	0.5	2.5	2.0	10.5	9.0	13.0	11.5	9.5	9.5	7.0	7.0
18	0.5	0.5	3.0	3.0	11.0	8.0	13.5	11.5	9.5	9.0	7.0	7.0
19	0.5	0.5	3.0	2.5	13.0	9.5	13.5	12.0	9.0	9.0	7.0	6.5
20	0.5	0.5	3.0	2.5	13.5	10.5	12.5	12.0	9.0	9.0	6.5	6.5
21	0.5	0.5	4.5	3.0	13.5	11.0	12.5	12.0	9.0	9.0	6.5	6.5
22	0.5	0.5	5.0	4.5	13.0	11.5	13.0	12.5	9.0	9.0	6.5	6.5
23	0.5	0.5	5.0	4.0	12.0	10.0	13.0	12.0	9.5	9.0	6.5	6.5
24	0.5	0.5	5.0	3.5	14.5	11.0	13.0	11.5	9.5	9.5	6.5	6.5
25	0.5	0.5	6.5	4.0	15.0	13.0	12.0	11.5	9.5	9.5	6.5	6.0
26	0.5	0.5	6.5	5.5	15.5	13.5	11.5	11.5	9.5	9.5	6.0	6.0
27	0.5	0.5	7.0	6.0	15.0	14.0	11.5	11.5	9.5	9.5	6.0	6.0
28	0.5	0.5	6.5	5.5	15.0	13.5	11.5	11.0	9.5	9.0	6.0	6.0
29	0.5	0.5	7.0	5.5	14.5	13.5	11.0	10.5	9.0	9.0	6.0	6.0
30	0.5	0.5	9.0	6.5	16.0	14.0	10.5	10.5	9.0	8.5	6.0	5.5
31	---	---	10.0	7.0	---	---	10.5	10.5	8.5	8.5	---	---
MONTH	---	---	10.0	0.5	16.0	6.5	16.5	7.0	12.0	8.5	8.5	5.5
YEAR	16.5	0.0										

15294450 CHUITNA RIVER NEAR TYONEK

LOCATION.--Lat 61°06'31", long 151°15'06", in NE¼NE¼ sec.29, T.12 N., R.11 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 2.1 mi (3.4 km) downstream from Lone Creek, 4.8 mi (7.7 km) northwest of Tyonek, and 6.1 mi (9.8 km) upstream from mouth.

DRAINAGE AREA.--131 mi² (339 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map.

REMARKS.--Water-discharge record poor prior to May 18 and good thereafter. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 14	2200	(a)		*10.97	3.344	Sept. 20	1900	*4,380	124	8.49	2.588
June 6	0300	3,390	96.0	7.96	2.426	Sept. 28	1800	2,440	69.1	7.34	2.237

a Backwater from ice.

Minimum daily discharge, about 60 ft³/s (1.70 m³/s) Mar. 1 to Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	140	90	90	90	60	60	110	1540	281	85	79
2	400	120	90	90	90	60	60	120	1630	297	81	78
3	350	120	85	90	90	60	60	140	1630	245	81	78
4	300	110	85	90	90	60	60	180	1640	214	81	78
5	260	110	80	90	90	60	60	180	1960	198	81	79
6	220	100	80	90	90	60	60	200	2630	183	95	74
7	200	100	80	90	80	60	60	200	1770	171	145	79
8	180	100	80	80	80	60	60	220	1800	153	159	396
9	170	100	80	80	80	60	60	220	1560	142	357	224
10	200	120	80	80	80	60	60	240	1890	132	189	148
11	400	120	90	80	70	60	60	260	2160	125	135	159
12	600	120	90	80	70	60	60	300	1930	153	132	138
13	800	120	90	80	70	60	60	350	1510	142	116	123
14	600	120	90	80	70	60	60	450	1140	123	110	153
15	500	120	90	80	70	60	60	600	976	114	107	450
16	400	120	100	80	70	60	70	800	896	112	103	470
17	350	120	100	80	70	60	70	1100	904	112	107	624
18	300	120	100	80	70	60	70	1270	679	110	305	420
19	250	120	100	80	70	60	70	1150	600	107	238	863
20	220	120	100	80	70	60	80	1300	651	105	162	1740
21	200	120	100	90	70	60	90	1430	564	101	130	1610
22	300	120	100	90	70	60	100	1570	510	97	112	1040
23	480	120	100	90	70	60	100	1410	460	99	101	558
24	400	120	100	90	70	60	90	1220	410	97	95	425
25	350	120	100	90	70	60	80	1310	415	91	93	410
26	300	120	100	90	70	60	80	1420	388	87	91	345
27	280	120	100	90	70	60	80	1420	357	83	89	325
28	240	110	100	90	70	60	90	1270	341	81	89	1070
29	200	100	100	90	70	60	90	1420	297	89	83	893
30	180	95	100	90	---	60	100	1520	277	110	81	460
31	160	---	100	90	---	60	---	1500	---	97	79	---
TOTAL	10290	3465	2880	2660	2190	1860	2160	24880	33515	4251	3912	13589
MEAN	332	116	92.9	85.8	75.5	60.0	72.0	803	1117	137	126	453
MAX	800	140	100	90	90	60	100	1570	2630	297	357	1740
MIN	160	95	80	80	70	60	60	110	277	81	79	74
CFSM	2.53	.89	.71	.65	.58	.46	.55	6.13	8.53	1.05	.96	3.46
IN.	2.92	.98	.82	.76	.62	.53	.61	7.07	9.52	1.21	1.11	3.86
AC-FT	20410	6870	5710	5280	4340	3690	4280	49350	66480	8430	7760	26950

WTR YR 1976 TOTAL 105652 MEAN 289 MAX 2630 MIN 60 CFSM 2.21 IN 30.00 AC-FT 209600

NOTE.--No gage-height record prior to May 10.

15294450 CHUITNA RIVER NEAR TYONEK--Continued

WATER-QUALITY RECORDS

PERIOD OR RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May to September 1976.

INSTRUMENTATION.--Temperature recorder since May 10, 1976.

REMARKS.--No record May 16 to June 6 when probe was out of water.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.5°C Aug. 4; minimum not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
09...	1600	172	50	7.1	1.5	10	2	--	16	0	4.6
23...	1130	477	40	7.3	.5	--	3	--	15	0	--
APR											
18...	1100	60	79	7.2	1.0	--	--	12.8	--	--	--
MAY											
10...	1400	E250	28	6.7	1.0	--	--	13.7	--	--	--
26...	1330	1110	27	6.8	3.5	28	--	13.0	10	0	2.5
JUN											
07...	1430	1500	25	6.5	4.5	--	22	11.8	--	--	--
JUL											
02...	1600	279	36	7.1	14.0	30	4	10.2	12	0	--
AUG											
20...	1400	157	51	--	15.0	30	1	10.3	20	0	6.0

E Estimated

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
09...	1.2	3.0	.5	25	0	3.2	3.5	1.1	.1	14
23...	--	--	--	18	0	1.4	--	--	--	--
APR										
18...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
26...	.8	1.0	.9	18	0	4.6	2.2	1.1	.1	6.3
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	21	--	2.7	--	--	--	--
AUG										
20...	1.3	2.9	.5	29	--	--	2.4	1.0	.1	13

15294450 CHUITNA RIVER NEAR TYONEK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT										
09...	41	41	.08	.09	.01	.14	.15	.23	.02	.00
23...	--	--	--	--	--	--	--	--	--	--
APR										
18...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
26...	29	24	.23	--	.06	.27	.33	.56	.07	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	41	42	.01	.01	.00	.09	.09	.10	.00	.00

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT										
09...	1600	140	1	0	0	10	10	620	270	0
MAY										
26...	1330	--	--	--	--	--	--	--	410	--
AUG										
20...	1400	60	0	0	<10	0	<10	680	380	<100

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT										
09...	30	30	.2	0	100	0	0	10	.04	4.2
MAY										
26...	--	30	--	--	--	--	--	--	--	--
AUG										
20...	30	30	.1	0	<50	0	<10	0	--	2.2

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT											
09...	1600	172	1.5	2	5	2.3	--	--	--	--	--
23...	1130	477	.5	3	13	17	--	--	--	--	--
MAY											
26...	1330	1110	3.5	--	67	201	61	69	82	98	100
JUN											
07...	1430	1500	4.5	22	128	518	38	46	66	95	100
JUL											
02...	1600	279	14.0	4	3	2.3	-	--	--	--	--
AUG											
20...	1400	157	15.0	1	1	.42	--	--	--	--	--

15294450 CHUITNA RIVER NEAR TYONEK--Continued

TEMPERATURE (DEG. C) OF WATER, MAY TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	---	---	12.5	12.0	21.0	15.0	11.5	8.5
2			---	---	---	---	14.0	11.0	18.0	14.0	11.0	8.5
3			---	---	---	---	15.5	11.0	21.5	14.5	12.5	7.5
4			---	---	---	---	13.0	9.5	22.5	16.0	10.0	7.5
5			---	---	---	---	13.5	9.0	20.0	15.5	10.0	5.5
6			---	---	---	---	18.0	11.0	17.0	14.0	9.0	5.0
7			---	---	5.0	3.0	19.0	12.5	16.0	13.0	8.0	7.0
8			---	---	6.0	2.0	20.0	13.0	14.5	12.5	8.0	6.5
9			---	---	5.5	2.0	21.0	15.0	12.5	11.0	9.5	7.0
10			1.0	1.0	7.5	2.0	20.0	15.0	17.0	11.5	8.5	7.0
11			1.0	1.0	8.5	2.0	18.5	15.0	16.0	12.5	9.5	7.5
12			1.0	0.5	8.5	2.0	19.0	14.0	16.5	13.0	9.0	7.0
13			0.5	0.5	6.0	2.5	19.0	12.5	15.0	12.5	9.5	8.0
14			1.5	0.5	6.5	4.0	18.5	12.0	14.5	13.0	8.5	7.5
15			1.0	0.5	6.5	5.0	17.0	14.0	14.5	12.0	7.5	6.5
16			---	---	6.0	5.0	18.0	13.5	14.5	12.0	7.5	6.5
17			---	---	5.0	5.0	18.0	14.0	12.5	11.5	7.0	6.5
18			---	---	6.0	5.0	17.0	14.0	12.0	10.0	7.0	5.5
19			---	---	7.0	6.0	16.5	13.5	13.5	10.5	7.0	5.0
20			---	---	7.5	6.5	18.0	13.0	16.0	11.0	6.5	5.0
21			---	---	7.5	7.0	19.5	13.5	16.0	11.5	6.5	5.5
22			---	---	8.0	7.0	16.0	14.5	16.0	11.0	7.5	6.5
23			---	---	8.5	8.0	17.5	12.0	17.0	12.0	7.0	6.0
24			---	---	9.5	8.5	19.0	12.5	17.0	13.0	7.5	6.0
25			---	---	10.0	9.5	19.0	12.0	14.5	12.0	7.0	6.0
26			---	---	10.5	10.0	18.5	12.5	12.5	10.5	7.5	6.5
27			---	---	11.5	10.5	20.0	14.0	12.5	10.5	7.5	6.0
28			---	---	11.5	11.0	17.0	14.5	15.0	10.0	7.0	5.0
29			---	---	12.0	11.5	14.5	13.5	14.5	10.0	5.0	4.0
30			---	---	12.5	12.0	17.0	12.0	13.5	8.5	4.5	3.0
31			---	---	---	---	20.0	12.0	13.0	8.5	---	---
MONTH			---	---	12.5	2.0	21.0	9.0	22.5	8.5	12.5	3.0

15296000 UGANIK RIVER NEAR KODIAK

LOCATION.--Lat 57°41'06", long 153°25'10", Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on right bank 0.5 mi (0.8 km) upstream from tidewater of East Arm Uganik Bay, 1 mi (2 km) downstream from Mush Lake tributary, 4 mi (6 km) downstream from Uganik Lake, and 40 mi (64 km) west of Kodiak.

DRAINAGE AREA.--123 mi^2 (319 km^2).

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Records good except those for Nov. 10 to May 11, which are poor. Periodic high tides cause backwater at the gage and are shown on the stage record. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 660 ft^3/s (18.69 m^3/s), 72.87 in/yr (1,851 mm/yr), 478,200 acre-ft/yr (590 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,700 ft^3/s (388 m^3/s) Oct. 3, 1952, gage height, 10.65 ft (3.246 m), from rating curve extended above 2,500 ft^3/s (71 m^3/s); minimum daily, 24 ft^3/s (0.68 m^3/s) Mar. 10-18, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft^3/s (96 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 21	0730	3,880	110	7.48	2.280	Sept. 18	0100	5,600	159	8.14	2.481
Aug. 26	1000	5,080	144	7.96	2.426	Sept. 25	1300	*8,150	231	*a8.98	2.737

a Backwater from tide.

Minimum daily discharge, 110 ft^3/s (3.12 m^3/s) Feb. 21-29, Mar. 16-22, 27-31, Apr. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	245	230	280	130	120	120	350	820	2480	1170	1380
2	840	250	210	260	130	120	120	500	970	2210	1030	2520
3	1260	230	200	260	150	120	120	800	1070	1930	1040	1460
4	1440	215	180	240	150	120	120	1100	1130	1800	1010	1020
5	1150	197	170	220	150	120	120	1100	1580	1630	970	790
6	910	188	160	200	130	130	120	1000	2010	1980	1950	656
7	734	183	160	180	130	130	120	1000	1790	2090	1650	1140
8	624	171	150	170	120	130	130	950	1690	1950	1350	1480
9	544	161	140	160	120	120	130	900	1550	2120	1150	1150
10	506	150	140	150	120	120	140	750	1280	2080	970	910
11	536	150	140	150	120	120	140	700	1220	1920	840	734
12	672	140	130	150	120	120	130	761	1550	1590	752	1040
13	761	140	130	160	120	120	120	790	1820	1330	761	2370
14	664	130	130	170	120	120	110	780	2120	1460	707	1560
15	716	130	140	180	120	120	110	734	2040	1800	752	1300
16	1360	130	140	200	120	110	120	698	1930	1820	698	1040
17	1240	180	150	200	120	110	120	664	2120	1530	624	2800
18	1000	266	150	190	120	110	130	616	2080	1620	770	4300
19	830	215	160	180	120	110	130	632	1960	1600	790	2090
20	664	192	180	160	120	110	140	648	1770	1960	707	1360
21	600	240	220	150	110	110	140	656	1600	3520	632	1100
22	568	368	300	140	110	110	140	698	1510	2480	616	1190
23	592	664	350	130	110	120	140	716	1470	1820	584	1930
24	576	689	350	150	110	120	150	707	1580	1420	560	3520
25	513	568	350	190	110	120	170	698	1690	1270	1060	7310
26	457	464	300	190	110	120	170	707	1800	1220	4500	5060
27	401	394	250	190	110	110	200	734	1930	1480	4060	2640
28	362	338	220	170	110	110	220	698	2270	1480	3180	1800
29	320	302	200	160	110	110	240	680	2480	1720	1960	1360
30	296	266	250	150	---	110	260	707	2480	1720	1400	1140
31	272	---	300	140	---	110	---	770	---	1350	1090	---
TOTAL	22498	7956	6280	5620	3520	3630	4320	23244	51310	56380	39333	58150
MEAN	726	265	203	181	121	117	144	750	1710	1819	1269	1938
MAX	1440	689	350	280	150	130	260	1100	2480	3520	4500	7310
MIN	272	130	130	130	110	110	110	350	820	1220	560	656
CFSM	5.90	2.15	1.65	1.47	.98	.95	1.17	6.10	13.9	14.8	10.3	15.8
IN.	6.80	2.41	1.90	1.70	1.06	1.10	1.31	7.03	15.52	17.05	11.90	17.59
AC-FT	44620	15780	12460	11150	6980	7200	8570	46100	101800	111800	78020	115300

CAL YR 1975 TOTAL 242049 MEAN 663 MAX 5000 MIN 100 CFSM 5.39 IN 73.20 AC-FT 480100
WTR YR 1976 TOTAL 282241 MEAN 771 MAX 7310 MIN 110 CFSM 6.27 IN 85.36 AC-FT 559800

NOTE.--No gage-height record Dec. 10 to May 9.

15296520 CANYON CREEK NEAR LARSEN BAY

LOCATION.--Lat 57°17'00", long 153°58'52", in SE¼SW¼ sec. 25, T.33 S., R.20 W., Kodiak Island Borough, Hydrologic Unit 19050001, Kodiak National Wildlife Refuge, on Kodiak Island, on left bank 0.6 mi (1.0 km) usptream from mouth, and 17 mi (27 km) south of Larsen Bay.

DRAINAGE AREA.--8.82 mi^2 (22,84 m^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1974 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Water-discharge record fair except for discharges above 100 ft^3/s (3 m^3/s) and those for Nov. 1 to Apr. 25, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 450 ft^3/s (12.7 m^3/s) Sept. 17, 1976, gage height, 2.31 ft (0.704 m), from extension of adjacent gage-height record, from rating curve extended above 91 ft^3/s (2.6 m^3/s); maximum gage height, 2.63 ft (0.802 m) Sept. 17, 1976, result of unknown hydraulic condition; minimum daily discharge, 6.0 ft^3/s (0.17 m^3/s) Mar. 28 to Apr. 5, 1976.

EXTREMES FOR CURRENT YEAR.--Same as extremes for period of record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	35	14	11	9.0	7.0	6.0	59	63	125	39	36
2	65	37	13	12	11	8.0	6.0	74	68	125	36	35
3	87	35	13	11	14	10	6.0	75	72	118	34	34
4	77	30	15	10	20	11	6.0	49	83	106	34	30
5	66	27	14	10	35	10	6.0	71	140	102	35	27
6	59	29	13	9.0	30	18	7.0	65	125	106	40	27
7	53	27	14	9.0	28	15	9.0	61	111	98	36	30
8	48	27	12	10	25	13	12	56	100	96	40	29
9	43	25	11	11	22	11	10	61	87	100	36	26
10	62	21	10	10	20	11	9.0	63	79	96	34	24
11	65	22	11	9.0	17	10	8.0	61	93	93	31	23
12	89	20	12	9.0	16	10	9.0	55	111	87	29	26
13	96	19	12	9.0	15	10	9.0	51	111	80	29	23
14	79	20	13	9.0	14	9.0	8.0	45	111	77	28	38
15	74	19	16	10	15	11	8.0	43	109	77	26	82
16	69	17	14	10	14	10	10	43	111	72	24	116
17	62	18	13	9.0	12	9.0	13	45	109	77	26	224
18	56	17	12	9.0	10	9.0	12	51	104	80	26	305
19	53	18	13	9.0	10	9.0	11	54	102	77	27	151
20	48	17	14	9.0	9.0	9.0	12	55	100	89	23	118
21	44	19	13	8.0	10	9.0	11	59	98	72	21	94
22	110	22	12	8.0	10	8.0	12	61	96	63	21	94
23	179	25	12	9.0	9.0	7.0	12	61	96	59	20	91
24	135	23	14	12	9.0	7.0	14	59	102	53	20	93
25	98	22	15	20	9.0	7.0	15	61	104	49	26	104
26	80	21	14	18	9.0	7.0	16	58	109	48	33	106
27	69	20	13	15	8.0	7.0	18	51	113	45	41	109
28	61	19	12	13	8.0	6.0	23	47	122	49	36	98
29	53	18	11	12	8.0	6.0	37	51	120	50	31	102
30	45	16	13	11	---	6.0	49	55	122	48	28	85
31	40	---	13	10	---	6.0	---	58	---	43	27	---
TOTAL	2233	685	401	331.0	426.0	286.0	384.0	1778	3071	2460	937	2380
MEAN	72.0	22.8	12.9	10.7	14.7	9.23	12.8	57.4	102	79.4	30.2	79.3
MAX	179	37	16	20	35	18	49	75	140	125	41	305
MIN	40	16	10	8.0	8.0	6.0	6.0	43	63	43	20	23
CFSM	8.16	2.59	1.46	1.21	1.67	1.05	1.45	6.51	11.6	9.00	3.42	8.99
IN.	9.42	2.89	1.69	1.40	1.80	1.21	1.62	7.50	12.95	10.37	3.95	10.04
AC-FT	4430	1360	795	657	845	567	762	3530	6090	4880	1860	4720

CAL YR 1975 TOTAL 14753.0 MEAN 40.4 MAX 248 MIN 8.0 CFSM 4.58 IN 62.22 AC-FT 29260
WTR YR 1976 TOTAL 15372.0 MEAN 42.0 MAX 305 MIN 6.0 CFSM 4.76 IN 64.83 AC-FT 30490

NOTE.--No gage-height record Dec. 15 to April 23.

15296520 CANYON CREEK NEAR LARSEN BAY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1974 to September 1976.

INSTRUMENTATION.--Temperature recorder since July 26, 1974.

REMARKS.--Temperature recorder malfunctioned March 26 to April 14 (range in temperature 0.5 to 4.5°C).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 14.0°C Aug. 4, 13-15, 17, 19, 21, 1974; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 12.0°C Aug. 20-23; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT						
01...	1530	73	62	7.8	7.0	9.6

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	1.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
2	6.5	6.0	2.5	1.5	1.0	1.0	1.0	1.0	0.5	0.0	1.0	0.0
3	6.0	6.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.5	1.0
4	6.0	6.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.5	0.5
5	6.5	5.5	2.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.5	0.0
6	5.5	4.5	2.5	1.5	1.0	1.0	1.0	1.0	1.5	0.5	1.5	0.0
7	5.5	4.5	2.5	1.5	1.0	1.0	1.0	1.0	1.0	0.0	1.5	0.5
8	6.0	5.0	2.0	1.0	1.0	1.0	1.0	0.5	0.0	0.0	1.5	0.5
9	5.0	4.0	2.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	2.0	0.5
10	6.0	5.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	1.5	0.5
11	6.5	6.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.0
12	6.0	5.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5	0.0
13	5.5	5.0	1.0	1.0	1.0	1.0	0.5	0.5	1.5	0.5	0.0	0.0
14	5.5	5.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0
15	5.5	5.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.5	0.0
16	6.0	5.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
17	5.5	5.0	1.5	1.0	1.0	1.0	1.0	0.5	1.5	1.0	0.0	0.0
18	5.5	4.5	2.5	1.5	1.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0
19	5.0	4.5	3.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
20	4.5	3.5	2.5	2.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0
21	5.0	4.5	3.0	2.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0
22	5.0	5.0	2.5	2.0	2.0	1.5	0.5	0.5	0.0	0.0	0.0	0.0
23	5.0	4.5	2.5	2.5	2.0	1.5	0.5	0.5	0.0	0.0	0.5	0.0
24	5.0	4.0	2.5	2.0	1.5	1.0	0.5	0.5	0.0	0.0	0.5	0.0
25	4.5	3.5	2.5	2.0	1.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0
26	3.5	3.0	2.5	1.5	1.5	1.5	1.0	0.5	0.0	0.0	---	---
27	3.0	2.0	2.5	1.5	2.0	1.5	1.0	1.0	0.0	0.0	---	---
28	3.0	2.0	2.5	2.5	2.0	1.0	1.0	0.5	0.0	0.0	---	---
29	2.5	1.5	2.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0	---	---
30	2.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	---	---	---	---
31	2.0	1.0	---	---	1.0	1.0	0.5	0.0	---	---	---	---
MONTH	7.0	1.0	3.0	1.0	2.0	1.0	1.0	0.0	1.5	0.0	2.0	0.0

15296520 CANYON CREEK NEAR LARSEN BAY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	4.0	1.0	7.0	1.5	5.5	4.0	11.0	6.0	7.5	7.0
2	---	---	4.5	1.0	4.5	2.5	5.5	4.0	10.5	5.5	8.0	6.5
3	---	---	3.5	1.5	5.0	2.5	6.0	4.0	11.5	6.5	7.5	5.5
4	---	---	4.5	1.5	5.5	2.5	6.0	4.0	9.5	6.5	9.0	5.0
5	---	---	3.5	1.5	3.0	2.5	8.0	4.0	9.5	7.0	8.5	4.5
6	---	---	5.5	1.5	3.5	2.0	6.5	4.5	9.5	7.0	7.0	4.5
7	---	---	5.0	1.5	5.0	2.0	8.0	4.0	8.0	7.5	8.0	6.5
8	---	---	5.0	1.0	4.0	2.0	9.5	4.0	8.0	7.0	7.5	6.5
9	---	---	3.5	1.5	3.0	2.0	9.5	4.0	8.5	7.0	8.0	6.5
10	---	---	4.5	1.5	7.0	1.5	9.0	4.0	9.5	7.0	8.0	6.0
11	---	---	4.0	2.0	8.5	2.0	6.0	5.0	8.0	7.0	7.5	6.5
12	---	---	4.0	1.0	7.0	2.0	5.5	4.5	11.5	7.5	7.0	6.0
13	---	---	3.5	1.5	4.0	2.5	6.5	4.5	8.5	6.0	8.0	6.0
14	---	---	5.0	1.5	4.5	3.0	7.5	4.5	8.0	7.0	7.0	6.0
15	3.0	0.5	5.5	1.0	4.5	2.5	6.5	5.0	9.0	7.0	6.5	6.0
16	4.0	0.5	4.5	2.0	4.0	3.0	8.0	4.0	9.0	7.0	6.0	5.5
17	3.5	1.0	5.5	2.0	5.5	3.0	10.5	5.0	8.0	6.5	6.0	5.5
18	4.0	1.0	4.5	2.0	4.5	3.0	10.5	5.0	9.5	7.0	6.0	5.0
19	4.0	0.5	5.0	1.5	6.0	3.0	8.0	5.5	8.5	7.0	6.0	5.0
20	3.5	0.5	6.5	2.0	4.5	2.5	6.0	5.5	12.0	7.0	5.5	4.5
21	3.5	1.0	6.5	1.5	6.0	3.0	6.5	5.0	12.0	6.0	5.0	4.0
22	4.5	0.5	7.0	1.5	6.0	2.5	8.5	5.0	12.0	6.0	6.0	5.0
23	3.0	0.5	6.0	2.0	8.0	3.0	8.5	5.5	12.0	6.0	6.5	5.5
24	3.5	0.0	6.0	1.0	6.0	3.0	7.0	6.0	9.5	7.5	6.5	5.5
25	3.5	0.0	6.0	2.0	8.0	3.0	6.5	6.5	8.5	7.5	6.5	6.0
26	4.0	1.5	4.0	2.0	8.5	2.5	6.5	6.5	9.0	7.5	6.0	5.5
27	5.0	1.5	3.5	2.0	8.0	3.0	6.5	6.5	9.0	7.0	5.5	5.0
28	5.5	1.0	8.0	1.5	8.5	3.0	10.0	6.5	8.5	7.0	5.0	4.0
29	5.0	1.0	7.0	2.0	8.5	3.0	10.0	7.0	9.5	7.0	5.5	4.5
30	4.5	1.0	7.5	1.5	6.5	3.5	8.5	6.0	8.5	6.5	6.0	4.0
31	---	---	7.0	1.0	---	---	10.5	6.5	8.0	7.0	---	---
MONTH	---	---	8.0	1.0	8.5	1.5	10.5	4.0	12.0	5.5	9.0	4.0
YEAR	12.0	0.0										

15296550 UPPER THUMB RIVER NEAR LARSEN BAY

LOCATION.--Lat 57°21'03", long 153°58'04", in NE¼NE¼ sec.1, T.33 S., R.30 W., Kodiak Island Borough, Hydrologic Unit 19050001, Kodiak National Wildlife Refuge, on Kodiak Island, on right bank 0.2 mi (0.3 km) downstream from confluence of East and North Forks, 0.3 mi (0.5 km) upstream from mouth at Thumb Lake, and 13 mi (21 km) south of Larsen Bay.

DRAINAGE AREA.--18.8 mi^2 (48.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m), from topographic map.

REMARKS.--Water-discharge records good except those above 300 ft^3/s (8 m^3/s), which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Sept. 18, 1976, gage height, 2.90 ft (0.884 m), from rating curve extended above 230 ft^3/s (6.5 m^3/s); miminum, 8.1 ft^3/s (0.23 m^3/s) Mar. 19 and Apr. 3, 1975, gage height, 0.53 ft (0.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Sept. 18, gage height, 2.90 ft (0.884 m), from rating curve extended above 230 ft^3/s (6.5 m^3/s); minimum, 11 ft^3/s (0.31 m^3/s) occurred intermittently during period Mar. 24 to Apr. 14, gage height, 0.66 ft (0.201 m), from recorded range in stage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	54	19	17	16	14	11	68	147	210	49	31
2	102	58	19	19	20	15	11	100	185	200	45	34
3	240	48	19	18	21	16	11	130	197	180	42	34
4	162	44	21	18	43	20	11	128	246	170	40	30
5	128	42	19	17	53	16	12	135	491	160	38	28
6	106	43	18	17	52	42	13	122	484	180	42	26
7	92	40	19	16	46	27	17	118	356	160	38	29
8	83	36	18	16	42	23	30	108	300	181	38	29
9	74	33	17	17	36	21	20	108	220	169	37	27
10	112	28	16	16	33	20	16	98	170	156	35	26
11	120	31	18	16	29	19	14	120	200	147	33	25
12	162	30	19	16	28	19	12	106	230	132	30	28
13	201	28	20	16	27	18	11	94	200	115	30	27
14	150	29	21	16	26	17	11	85	190	106	29	40
15	147	28	24	16	26	19	12	83	180	112	28	112
16	141	25	22	16	25	18	14	81	190	118	27	122
17	120	28	20	15	23	16	16	83	190	110	26	460
18	106	27	19	15	18	16	16	94	180	115	26	770
19	96	28	20	16	18	16	19	98	170	115	26	374
20	86	26	21	15	16	16	20	106	160	125	23	265
21	79	28	20	13	16	16	19	118	160	108	23	201
22	221	33	19	14	17	15	20	128	150	94	21	205
23	458	34	18	14	16	14	20	130	150	92	21	193
24	345	29	19	30	16	14	18	135	150	85	20	201
25	223	27	23	31	16	13	18	135	160	76	23	241
26	156	26	22	26	16	13	19	128	170	69	29	218
27	125	25	21	23	15	12	22	106	180	64	41	205
28	102	24	19	21	14	12	28	94	190	64	36	177
29	86	23	16	21	14	12	38	104	180	63	33	189
30	69	19	22	20	---	11	53	118	200	60	30	156
31	62	---	21	19	---	11	---	128	---	54	28	---
TOTAL	4469	974	609	560	738	531	552	3389	6376	3790	987	4503
MEAN	144	32.5	19.6	18.1	25.4	17.1	18.4	109	213	122	31.8	150
MAX	458	58	24	31	53	42	53	135	491	210	49	770
MIN	62	19	16	13	14	11	11	68	147	54	20	25
CFSM	7.66	1.73	1.04	.96	1.35	.91	.98	5.80	11.3	6.49	1.69	7.98
IN.	8.84	1.93	1.20	1.11	1.46	1.05	1.09	6.71	12.62	7.50	1.95	8.91
AC-FT	8860	1930	1210	1110	1460	1050	1090	6720	12650	7520	1960	8930

CAL YR 1975 TOTAL 29764.6 MEAN 81.5 MAX 770 MIN 8.5 CFSM 4.34 IN 58.89 AC-FT 59040
WTR YR 1976 TOTAL 27478.0 MEAN 75.1 MAX 770 MIN 11 CFSM 3.99 IN 54.37 AC-FT 54500

15296550 UPPER THUMB RIVER NEAR LARSEN BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1974 to current year.

INSTRUMENTATION.--Temperature recorder since July 27, 1974.

REMARKS.--No record Oct. 24 to Apr. 15. Temperature recorder malfunctioned June 8 to July 7 (range in temperature 4.0 to 10.0°C).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 14.0°C Aug. 16, 1974; minimum (water year 1975), 0.5°C Jan. 2 to Feb. 9, Mar. 26, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 12.0°C Aug. 20-24; minimum not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT						
01...	1045	124	62	7.3	6.5	10.2

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0										
2	6.5	6.0										
3	6.0	6.0										
4	6.0	5.5										
5	6.0	5.0										
6	5.0	4.0										
7	5.0	4.0										
8	5.5	4.0										
9	4.5	3.5										
10	6.0	4.5										
11	6.5	6.0										
12	6.5	5.5										
13	5.5	5.0										
14	5.5	5.0										
15	5.0	5.0										
16	5.0	5.0										
17	5.0	4.5										
18	5.0	4.5										
19	4.5	4.0										
20	4.0	3.5										
21	4.5	3.5										
22	4.5	4.5										
23	5.0	4.5										
24	---	---										
25	---	---										
26	---	---										
27	---	---										
28	---	---										
29	---	---										
30	---	---										
31	---	---										
MONTH	---	---										

15296550 UPPER THUMB RIVER NEAR LARSEN BAY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	5.0	2.5	7.5	3.0	---	---	11.0	6.5	9.0	7.5
2	---	---	4.5	2.5	5.5	3.5	---	---	10.5	6.5	9.0	7.5
3	---	---	3.5	2.5	5.0	4.0	---	---	11.5	7.5	9.0	7.0
4	---	---	4.5	2.5	6.5	4.0	---	---	11.5	7.0	10.0	6.0
5	---	---	5.0	2.5	5.0	4.0	---	---	10.5	8.0	10.0	5.5
6	---	---	6.0	2.5	4.5	4.0	---	---	10.0	8.0	9.0	6.0
7	---	---	5.0	2.5	5.0	3.5	---	---	10.0	8.0	9.0	7.0
8	---	---	4.0	2.5	---	---	10.5	6.0	9.0	8.0	9.0	7.0
9	---	---	4.5	2.5	---	---	10.5	5.5	9.5	7.5	8.5	7.0
10	---	---	4.5	3.0	---	---	10.0	5.5	10.5	8.0	8.5	7.0
11	---	---	4.5	3.0	---	---	8.0	6.5	10.5	8.0	8.5	6.5
12	---	---	4.5	2.5	---	---	7.0	6.0	11.5	8.0	7.5	7.0
13	---	---	4.0	3.0	---	---	7.5	6.0	11.5	7.0	8.5	7.0
14	---	---	5.0	3.0	---	---	8.0	6.0	9.0	7.5	8.5	7.0
15	3.0	1.5	5.5	3.0	---	---	8.0	6.5	9.5	7.5	7.5	7.0
16	3.0	1.5	4.5	3.0	---	---	8.5	5.5	9.5	7.5	7.5	7.0
17	5.0	2.0	6.0	3.0	---	---	11.5	6.0	9.5	7.5	7.0	7.0
18	4.0	2.5	4.5	3.0	---	---	11.5	6.5	10.0	7.5	7.0	6.5
19	4.0	2.0	5.0	2.5	---	---	10.0	7.0	10.0	7.5	6.5	6.0
20	4.0	2.0	6.0	3.0	---	---	8.5	7.0	12.0	7.5	6.5	6.0
21	3.5	2.5	6.0	2.5	---	---	7.5	6.5	12.0	7.0	6.5	5.0
22	5.0	2.0	6.5	3.0	---	---	9.5	6.5	12.0	7.0	6.0	5.5
23	3.5	2.5	6.5	3.0	---	---	9.0	7.0	12.0	7.0	7.0	6.0
24	4.0	2.0	5.5	2.5	---	---	9.5	6.0	12.0	7.5	7.0	6.5
25	3.5	2.0	6.0	3.0	---	---	9.5	6.5	10.0	8.0	7.0	6.5
26	5.0	2.5	4.5	3.0	---	---	8.5	6.5	9.5	8.0	7.0	6.5
27	5.0	2.5	4.5	3.0	---	---	8.5	6.5	10.0	8.0	6.5	6.0
28	6.0	2.0	7.5	3.0	---	---	10.0	7.0	10.0	8.0	6.0	5.5
29	5.5	2.5	7.0	3.0	---	---	11.0	7.5	9.5	8.0	6.0	5.5
30	5.0	2.5	7.5	3.0	---	---	9.5	7.0	9.5	7.5	6.0	5.5
31	---	---	7.5	3.0	---	---	11.0	7.0	9.0	7.5	---	---
MONTH	---	---	7.5	2.5	---	---	---	---	12.0	6.5	10.0	5.0

15296600 KARLUK RIVER AT OUTLET NEAR LARSEN BAY

LOCATION.--Lat 57°26'37", long 154°06'41", in NW¼SW¼ sec. 33, T.31 S., R.30 W., Kodiak Island Borough, Hydrologic Unit 19050001, Kodiak National Wildlife Refuge, on Kodiak Island, on right bank 0.3 mi (0.5 km) downstream from Karluk Lake and 5.0 mi (8.0 km) south of Larsen Bay.

DRAINAGE AREA.--100 mi² (259 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 360 ft (110 m), from topographic map.

REMARKS.--Water-discharge record good. Discharge affected by storage in Karluk, O'Malley, and Thumb Lakes, surface area of 15 mi² (39 km²).

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum discharge during period, 496 ft³/s (14.0 m³/s) Sept. 26, gage height, 1.57 ft (0.479 m); minimum, 195 ft³/s (5.52 m³/s) Sept. 1, gage height, 1.13 ft (0.344 m).

Water year 1976: Maximum discharge, 843 ft³/s (23.9 m³/s) June 14, gage height, 1.93 ft (0.588 m); minimum, 102 ft³/s (2.89 m³/s) about Apr. 5, gage height, 0.93 ft (0.283 m).

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

DAY	SEP	DAY	SEP	DAY	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	205	7	236	13	339	19	---	400	25	254	456
2	205	8	242	14	346	20	---	440	26	242	472
3	210	9	266	15	353	21	284	440	27	230	464
4	210	10	311	16	346	22	272	464	28	225	456
5	254	11	332	17	392	23	266	472	29	220	464
6	242	12	339	18	384	24	260	464	30	215	464
									31	210	---

SEPTEMBER TOTAL - 10668 MEAN - 356 MAX - 472 MIN - 205 CFSM - 3.56 IN - 3.97 AC-FT - 21160

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	601	266	205	180	140	110	225	547	780	368	236
2	456	574	254	200	175	145	110	260	565	790	353	230
3	480	556	236	195	180	150	110	290	610	800	339	236
4	504	529	225	190	190	160	105	325	670	790	332	230
5	520	504	215	180	215	145	105	346	720	780	318	225
6	512	488	195	175	236	170	105	360	740	760	325	220
7	504	472	180	170	236	175	105	384	750	740	325	215
8	496	472	170	165	240	175	110	416	750	730	318	220
9	488	456	165	160	250	175	110	432	740	710	304	215
10	504	432	160	155	245	170	115	448	750	700	297	210
11	520	416	165	150	240	175	115	464	750	690	290	210
12	547	392	165	140	230	180	120	472	770	670	278	200
13	565	376	175	135	230	180	115	472	790	650	278	205
14	583	360	180	130	225	170	110	464	800	620	272	225
15	574	346	185	130	220	165	106	464	810	592	260	260
16	583	325	195	126	210	165	110	464	810	583	254	278
17	583	290	215	126	205	165	118	472	821	565	248	360
18	574	297	205	140	200	160	122	480	821	547	242	496
19	565	325	225	150	185	160	126	488	810	538	242	574
20	547	304	220	140	185	160	130	496	810	529	236	620
21	538	304	215	150	180	155	135	504	790	520	236	650
22	601	318	225	155	170	150	135	512	780	504	230	670
23	690	318	220	160	165	145	135	520	770	488	230	660
24	770	318	210	165	155	140	130	529	770	480	225	650
25	780	311	215	170	150	135	140	529	760	464	215	680
26	780	304	220	180	145	130	145	520	760	448	205	690
27	770	297	215	185	145	125	150	520	760	432	220	700
28	750	290	210	185	140	120	165	520	770	424	215	700
29	720	284	200	185	140	120	180	520	780	408	215	700
30	680	278	215	190	---	115	200	520	780	400	220	690
31	650	---	210	190	---	115	---	529	---	384	225	---
TOTAL	18298	11537	6351	5077	5667	4735	3772	13945	22554	18516	8315	12455
MEAN	590	385	205	164	195	153	126	450	752	597	268	415
MAX	780	601	266	205	250	180	200	529	821	800	368	700
MIN	456	278	160	126	140	115	105	225	547	384	205	200
CFSM	5.90	3.85	2.05	1.64	1.95	1.53	1.26	4.50	7.52	5.97	2.68	4.15
IN.	6.81	4.29	2.36	1.89	2.11	1.76	1.40	5.19	8.39	6.89	3.09	4.63
AC-FT	36290	22880	12600	10070	11240	9390	7480	27660	44740	36730	16490	24700

WTR YR 1976 TOTAL 131222 MEAN 359 MAX 821 MIN 105 CFSM 3.59 IN 48.81 AC-FT 260300

15296600 KARLUK RIVER AT OUTLET NEAR LARSEN BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1975 to September 1976.

INSTRUMENTATION.--Temperature recorder since Aug. 21, 1975.

REMARKS.--Temperature recorder malfunctioned Mar. 25 to Apr. 14 (range in temperature 2.0 to 3.0°C).

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURES:
August to September 1975: Maximum, 14.0°C Aug. 21, 22, 25, 30, minimum, 8.0°C Aug. 27, 28, Sept. 26, 27.

Water year 1976: Maximum, 16.0°C Aug. 23, 24, minimum, 1.5°C on some days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT										
01...	1130	464	71	8.5	10.5	4	11.2	27	2	8.2

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
01...	1.5	3.7	.2	30	0	.2	4.6	4.2	.1	.8

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT										
01...	36	38	.02	.02	.03	.00	.03	.05	.01	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT					
01...	1130	0	10	1.2	.8

TEMPERATURE (DEG. C) OF WATER, AUGUST AND SEPTEMBER 1975

	SEPTEMBER			SEPTEMBER			AUGUST		SEPTEMBER	
DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN	MAX	MIN
1	13.0	12.5	11	11.5	10.5	21	14.0	13.0	10.5	10.0
2	13.0	12.5	12	11.5	11.0	22	14.0	13.0	10.5	10.0
3	13.0	12.5	13	11.5	11.0	23	13.5	13.0	10.5	10.5
4	13.0	12.5	14	11.0	11.0	24	13.5	13.0	10.5	9.5
5	13.0	12.0	15	11.0	11.0	25	14.0	13.0	10.0	9.0
6	12.5	11.5	16	11.0	11.0	26	13.0	8.5	9.0	8.0
7	12.5	11.0	17	11.5	11.0	27	10.0	8.0	8.5	8.0
8	12.0	11.5	18	11.5	10.5	28	12.5	8.0	9.5	8.5
9	11.5	11.5	19	10.5	10.5	29	13.0	12.0	10.0	9.5
10	11.5	11.0	20	10.5	10.0	30	14.0	12.5	10.0	9.5
						31	13.0	12.5	--	--
						MONTH	--	--	13.0	8.0

15296600 KARLUK RIVER AT OUTLET NEAR LARSEN BAY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	7.0	6.5	4.5	4.5	2.0	2.0	2.5	2.5	2.0	2.0
2	10.0	9.5	6.5	6.5	4.5	4.0	2.0	2.0	2.5	2.0	2.0	2.0
3	9.5	7.5	6.5	6.5	4.0	4.0	2.5	2.0	2.0	2.0	2.0	2.0
4	8.0	7.5	6.5	6.5	4.0	3.5	2.5	2.5	2.0	1.5	2.0	2.0
5	8.0	7.5	6.5	6.5	3.5	3.5	2.5	2.0	2.0	2.0	2.0	2.0
6	8.0	7.5	6.5	5.5	4.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0
7	8.0	8.0	5.5	5.5	3.5	3.5	2.0	2.0	2.5	2.0	2.0	2.0
8	8.5	8.0	5.5	5.5	4.0	3.5	2.0	2.0	2.5	2.0	2.0	2.0
9	8.5	8.5	5.5	5.5	3.5	2.0	2.0	2.0	2.5	2.5	2.0	2.0
10	8.5	8.5	5.5	5.5	3.5	2.0	2.0	2.0	2.5	2.5	2.0	2.0
11	9.0	8.5	5.5	5.5	2.0	2.0	2.0	2.0	2.5	2.0	2.5	2.0
12	9.0	8.5	5.5	5.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
13	8.5	8.5	5.5	5.0	2.0	1.5	2.0	2.0	2.0	2.0	2.5	2.0
14	8.5	8.5	5.0	5.0	2.0	1.5	2.0	2.0	2.5	2.0	2.5	2.0
15	8.5	8.0	5.0	5.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.0
16	8.5	8.0	5.0	4.5	2.0	1.5	2.0	2.0	2.5	2.0	2.5	2.0
17	8.0	8.0	4.5	4.5	2.0	1.5	2.0	2.0	2.0	2.0	2.5	2.0
18	8.0	8.0	4.5	4.5	2.0	1.5	2.0	2.0	2.0	2.0	2.5	2.0
19	8.0	7.5	4.5	4.0	2.0	1.5	2.0	2.0	2.0	2.0	3.0	2.5
20	7.5	7.5	4.0	4.0	2.0	2.0	2.0	1.5	2.5	2.0	3.0	2.5
21	7.5	7.5	4.5	4.0	2.0	2.0	3.0	1.5	3.0	2.5	2.5	2.5
22	7.5	7.5	4.5	4.5	2.0	2.0	3.0	2.0	2.5	2.0	2.5	2.5
23	7.5	7.5	4.5	4.5	2.0	2.0	3.5	2.0	2.0	2.0	2.5	2.0
24	7.5	7.5	4.5	4.5	2.0	2.0	2.0	2.0	2.5	2.0	2.5	2.0
25	7.5	7.5	4.5	4.5	2.0	2.0	2.0	2.0	2.0	2.0	---	---
26	7.5	7.5	4.5	4.5	2.0	2.0	2.0	2.0	2.0	2.0	---	---
27	7.5	7.5	4.5	4.5	2.0	2.0	2.0	2.0	2.0	2.0	---	---
28	7.5	7.0	4.5	4.5	2.0	2.0	2.0	2.0	2.5	2.0	---	---
29	7.0	7.0	4.5	4.5	2.5	2.0	2.0	2.0	2.0	2.0	---	---
30	7.0	7.0	4.5	4.5	2.5	2.0	2.0	2.0	---	---	---	---
31	7.0	7.0	---	---	2.0	2.0	2.5	2.0	---	---	---	---
MONTH	10.5	7.0	7.0	4.0	4.5	1.5	3.5	1.5	3.0	1.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	2.5	2.0	6.5	6.0	11.0	10.0	13.0	12.0	12.0	11.0
2	---	---	3.0	2.0	7.5	6.0	10.0	8.5	13.0	12.0	12.5	11.5
3	---	---	3.0	2.5	7.5	6.0	8.5	7.0	14.0	12.5	12.5	12.0
4	---	---	3.0	2.5	6.0	6.0	8.5	7.0	13.5	12.5	12.5	12.0
5	---	---	3.0	2.5	6.0	5.5	11.5	8.5	13.0	12.0	12.5	11.5
6	---	---	3.0	2.5	5.5	5.0	11.5	11.0	12.5	11.5	12.0	11.0
7	---	---	3.0	2.5	5.0	5.0	11.0	10.5	13.5	11.5	12.0	10.5
8	---	---	4.0	3.0	5.5	5.0	11.5	9.0	13.5	13.0	12.0	11.0
9	---	---	3.5	3.0	7.5	5.5	12.5	9.0	13.5	13.0	11.5	11.0
10	---	---	3.0	2.5	8.0	7.5	12.5	9.5	13.5	13.0	12.0	11.5
11	---	---	3.0	2.5	7.5	7.0	12.5	12.0	13.0	13.0	11.5	11.5
12	---	---	3.5	3.0	7.0	6.5	12.5	12.5	13.0	9.0	11.5	11.0
13	---	---	3.5	3.5	6.5	5.5	13.0	12.5	13.0	9.0	11.5	9.5
14	---	---	3.5	3.5	6.0	5.5	13.0	13.0	13.0	13.0	11.0	10.5
15	2.5	1.5	5.0	3.5	6.0	5.5	13.0	7.0	13.0	12.5	10.5	10.5
16	2.5	1.5	4.0	3.5	5.5	5.5	11.0	7.0	13.0	12.5	10.5	10.0
17	2.5	1.5	3.5	3.5	5.5	5.5	13.0	11.0	12.5	12.5	10.0	9.0
18	2.5	1.5	4.0	3.5	6.0	5.5	14.5	12.0	13.0	12.5	10.0	9.0
19	2.5	2.0	4.0	3.5	6.5	6.0	15.0	11.5	13.0	11.0	10.0	9.5
20	2.5	2.0	6.0	4.0	7.5	6.5	15.0	13.0	14.0	12.0	10.0	9.5
21	2.5	2.0	5.0	4.5	8.0	7.5	13.0	13.0	13.0	12.0	10.0	9.5
22	2.5	2.0	4.5	4.0	7.5	6.0	13.0	7.0	14.5	12.5	9.5	9.0
23	2.5	2.0	4.0	4.0	6.5	6.0	12.0	7.0	16.0	13.0	10.0	9.5
24	2.5	2.0	4.0	4.0	8.0	6.5	13.0	12.0	16.0	14.0	10.0	8.0
25	2.5	2.0	4.0	4.0	10.0	8.0	13.0	12.5	14.0	13.0	8.0	7.0
26	3.0	2.0	4.0	4.0	9.5	9.0	13.0	12.0	13.5	7.0	8.5	7.5
27	3.0	2.5	4.5	4.0	9.0	8.0	13.0	12.5	13.0	6.5	8.5	8.5
28	3.0	2.0	4.5	4.5	9.0	7.5	14.0	12.5	13.0	12.0	8.5	8.5
29	2.5	2.0	5.5	4.5	12.0	9.0	14.0	13.0	12.0	10.0	8.5	8.0
30	2.5	2.0	7.0	5.0	12.0	11.0	13.5	13.0	12.5	11.0	8.5	8.5
31	---	---	7.0	6.5	---	---	13.5	13.0	12.5	12.0	---	---
MONTH	---	---	7.0	2.0	12.0	5.0	15.0	7.0	16.0	6.5	12.5	7.0
YEAR	16.0	1.5										

15296950 AKALURA CREEK AT OLGA BAY

LOCATION.--Lat 57°10'00", long 154°13'35", in SW¼SW¼ sec. 4, T.35 S., R.31 W., Kodiak Island Borough, Hydrologic Unit 19050001, Kodiak National Wildlife Refuge, on Kodiak Island, on right bank 0.2 mi (0.3 km) upstream from mouth, and 0.4 mi (0.6 km) north of old cannery at Olga Bay.

DRAINAGE AREA.--18.4 mi^2 (47.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to Septebmer 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Water-discharge record fair except for discharges below 40 ft^3/s (1.1 m^3/s), which are poor. Discharge affected by storage in Akalura Lake, surface area of 2.0 mi^2 (5.2 km^2). Unusual low flows in January and March are presumed to have been caused by ice blockage at mouth of Akalura Lake.

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum discharge during period, 166 ft^3/s (4.70 m^3/s) Sept. 22, gage height, 1.72 ft (0.54 m); minimum, 23 ft^3/s (0.65 m^3/s) Sept. 3, gage height, 0.89 ft (0.271 m).

Water year 1976: Maximum discharge, 158 ft^3/s (4.47 m^3/s) Sept. 29, gage height, 1.68 ft (0.512 m); minimum daily, about 2.0 ft^3/s (0.06 m^3/s) March 26, see REMARKS above.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

DAY	SEP	DAY	SEP	DAY	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	26	7	52	13	95	19	---	131	25	31	142
2	26	8	58	14	97	20	---	149	26	32	121
3	26	9	61	15	95	21	---	157	27	29	124
4	26	10	97	16	94	22	35	158	28	27	131
5	52	11	99	17	106	23	33	153	29	27	133
6	58	12	99	18	110	24	32	148	30	26	130
									31	26	---

SEPTEMBER TOTAL - 2954 MEAN - 98.5 MAX - 158 MIN - 26 CFSM - 5.35 IN - 5.97 AC-FT - 5860

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	68	42	63	48	29	18	59	85	65	27	39
2	115	65	40	58	46	35	25	68	85	67	26	48
3	104	61	40	54	67	42	25	77	86	68	25	50
4	108	60	38	51	94	48	24	90	88	65	25	46
5	101	58	38	50	113	42	24	88	104	63	25	45
6	97	54	36	45	128	85	24	92	106	60	28	42
7	97	52	36	42	124	70	25	95	106	54	27	42
8	90	50	36	40	120	67	26	95	104	50	35	44
9	79	46	36	40	110	63	27	95	101	51	34	42
10	97	44	36	38	108	63	29	95	101	50	34	38
11	117	42	36	38	103	59	32	95	99	48	32	37
12	126	38	40	37	99	56	29	95	97	46	31	39
13	140	36	46	31	94	52	32	104	97	45	29	35
14	142	34	45	32	85	50	46	108	94	44	29	45
15	130	32	50	33	77	45	25	103	92	42	28	59
16	121	30	61	32	68	44	31	101	90	39	27	68
17	119	28	67	33	65	40	33	99	90	37	27	112
18	121	22	63	37	59	38	38	103	90	35	28	146
19	104	19	63	39	56	36	42	103	92	33	28	149
20	104	31	58	39	51	34	39	103	94	35	27	151
21	90	39	54	40	50	34	40	99	92	37	26	148
22	101	58	52	42	46	32	40	99	88	35	25	149
23	104	56	51	44	44	30	38	99	85	33	24	144
24	117	54	48	46	40	13	37	97	83	32	25	139
25	97	51	63	46	38	3.0	37	97	77	32	31	131
26	95	54	65	6.0	36	2.0	38	95	74	29	35	137
27	97	51	63	12	34	6.0	42	92	72	31	34	146
28	88	50	61	51	33	9.5	44	88	68	31	34	148
29	83	50	56	58	32	10	45	86	67	29	33	155
30	81	45	70	54	---	8.0	50	86	65	29	32	149
31	76	---	68	52	---	3.0	---	86	---	29	32	---
TOTAL	3269	1378	1558	1283.0	2068	1148.5	1005	2892	2672	1344	903	2723
MEAN	105	45.9	50.3	41.4	71.3	37.0	33.5	93.3	89.1	43.4	29.1	90.8
MAX	142	68	70	63	128	85	50	108	106	68	35	155
MIN	76	19	36	6.0	32	2.0	18	59	65	29	24	35
CFSM	5.71	2.49	2.73	2.25	3.88	2.01	1.82	5.07	4.84	2.36	1.58	4.93
IN.	6.61	2.79	3.15	2.59	4.18	2.32	2.03	5.85	5.40	2.72	1.83	5.50
AC-FT	6480	2730	3090	2540	4100	2280	1990	5740	5300	2670	1790	5400

WTR YR 1976 TOTAL 22243.5 MEAN 60.8 MAX 155 MIN 2.0 CFSM 3.30 IN 44.97 AC-FT 44120

15296950 AKALURA CREEK AT OLGA BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1976 (discontinued).

PERIOD OF DAILY RECORDS.--
WATER TEMPERATURES: August 1975 to September 1976.

INSTRUMENTATION.--Temperature recorder since Aug. 23, 1975.

REMARKS.--Temperature recorder malfunctioned July 5-8 (range in temperature 16.0 to 17.0°C).

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURES:
August to September 1975: Maximum, 17.0°C Aug. 30; minimum, 10.0°C Sept. 19-22, 27.

Water year 1976: Maximum, 18.5°C Aug. 3, 4; minimum, 0.5°C on most days December to February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 02...	1330	122	58	11.0	4	--	18	0	5.3	1.2
MAR 18...	0830	E48	66	.5	2	14.0	20	3	4.5	2.1

E Estimated

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT 02...	5.6	.3	22	0	3.6	8.0	.0	2.9	37
MAR 18...	6.5	.5	21	--	3.5	9.9	.1	4.6	34

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 02...	38	.00	.00	.03	.26	.29	.29	.02	.00
MAR 18...	42	.10	.06	.03	.74	.77	.87	.03	.01

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT 02...	1330	0	10	4.9	--	--	.9
MAR 18...	0830	0	0	--	2.1	1.2	--

15296950 AKALURA CREEK AT OLGA BAY--Continued

TEMPERATURE (DEG. C) OF WATER, AUGUST AND SEPTEMBER 1975

	SEPTEMBER			SEPTEMBER			AUGUST		SEPTEMBER	
DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN	MAX	MIN
1	13.5	12.5	11	11.5	11.0	21	--	--	10.5	10.0
2	13.5	12.0	12	12.0	11.5	22	--	--	10.5	10.0
3	13.5	11.5	13	12.0	11.0	23	15.0	13.5	10.5	10.5
4	13.5	11.0	14	11.5	11.5	24	15.0	13.0	10.5	10.5
5	12.0	10.5	15	11.5	11.0	25	16.0	12.5	10.5	10.5
6	11.5	10.5	16	11.0	11.0	26	14.0	13.0	11.0	10.5
7	12.5	11.0	17	11.0	11.0	27	14.5	12.5	10.5	10.0
8	12.0	11.0	18	11.0	11.0	28	16.5	12.0	10.5	10.5
9	11.5	11.0	19	11.0	10.0	29	14.5	12.0	10.5	10.5
10	11.5	11.0	20	10.0	10.0	30	17.0	13.0	10.5	10.5
						31	13.5	13.0	--	--
						MONTH	--	--	13.5	10.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	4.5	4.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0
2	10.5	10.0	4.5	4.0	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0
3	10.5	10.5	4.0	3.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0
4	10.5	10.0	3.5	3.5	1.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0
5	10.0	9.5	3.5	3.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
6	10.0	9.5	3.5	3.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
7	10.0	9.5	3.5	3.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
8	10.0	9.5	3.5	3.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
9	9.5	9.0	3.5	2.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
10	9.5	9.0	2.5	2.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
11	9.0	9.0	2.5	2.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
12	9.0	9.0	2.0	1.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
13	9.0	9.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
14	9.0	9.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
15	9.0	9.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
16	9.0	8.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
17	8.5	8.5	1.5	1.5	1.0	1.0	0.5	0.5	1.0	0.5	1.0	1.0
18	8.5	8.5	1.5	1.5	1.0	1.0	0.5	0.5	1.0	1.0	1.0	1.0
19	8.5	7.5	1.5	1.5	1.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0
20	7.5	7.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
21	7.5	7.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
22	7.5	7.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
23	7.5	7.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.0
24	7.5	7.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
25	7.5	6.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
26	6.5	6.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
27	6.5	6.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
28	6.5	6.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
29	6.5	5.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5
30	5.5	5.0	1.5	1.5	0.5	0.5	0.5	0.5	---	---	1.5	1.5
31	5.0	4.5	---	---	0.5	0.5	0.5	0.5	---	---	1.5	1.5
MONTH	10.5	4.5	4.5	1.5	1.5	0.5	0.5	0.5	1.0	0.5	1.5	1.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.5	5.0	4.0	10.0	9.0	15.5	15.5	17.5	16.5	16.5	16.0
2	1.5	1.5	5.0	4.5	10.0	10.0	15.5	15.5	17.5	17.0	16.0	16.0
3	1.5	1.5	4.5	4.5	10.0	10.0	16.0	15.5	18.5	17.0	16.0	16.0
4	1.5	1.5	5.5	4.5	10.5	10.0	16.0	16.0	18.5	17.0	16.0	15.5
5	1.5	1.5	6.0	5.0	10.0	10.0	---	---	17.5	17.5	16.0	15.5
6	2.0	1.5	6.0	5.5	10.5	10.0	---	---	17.5	17.5	15.5	15.5
7	2.5	2.0	6.0	5.5	11.0	10.5	---	---	17.5	17.0	15.5	15.5
8	2.0	2.0	6.0	5.5	11.0	10.5	---	---	17.0	17.0	15.5	15.5
9	2.0	2.0	6.0	5.5	10.5	10.0	17.0	16.0	17.0	17.0	15.5	15.0
10	2.0	2.0	6.0	6.0	11.0	10.0	17.0	16.5	17.5	17.0	15.0	15.0
11	2.0	2.0	6.5	6.0	12.5	10.5	17.0	16.5	17.5	17.0	15.0	15.0
12	2.5	2.0	6.0	6.0	12.0	11.0	16.5	16.5	17.0	17.0	15.0	15.0
13	2.5	2.5	6.0	6.0	11.5	11.0	16.5	16.5	17.0	17.0	15.0	15.0
14	2.5	2.0	6.0	5.5	12.0	11.5	16.5	16.0	17.0	17.0	15.0	14.5
15	2.5	2.5	7.0	6.0	12.5	12.0	16.0	16.0	17.0	17.0	14.5	14.0
16	2.5	2.5	6.5	6.0	12.5	12.0	17.0	16.0	17.5	17.0	14.0	14.0
17	2.5	2.5	6.0	6.0	13.0	12.0	18.0	16.5	17.5	17.0	14.0	13.0
18	2.5	2.5	6.5	6.0	13.0	12.5	18.0	17.0	17.0	17.0	13.5	13.0
19	3.0	2.5	7.0	6.5	13.5	12.5	18.0	17.0	17.0	16.5	13.5	13.5
20	3.5	3.0	8.5	7.0	13.5	13.0	17.0	16.5	17.5	16.5	13.5	13.5
21	3.5	3.5	8.0	7.5	13.0	12.5	16.5	16.5	18.0	17.0	13.5	13.5
22	3.5	3.5	8.5	7.5	13.0	12.5	17.0	16.5	18.0	17.0	13.5	13.5
23	3.5	3.5	8.5	7.5	14.5	13.0	17.5	16.5	18.0	17.0	13.5	13.5
24	3.5	3.5	9.5	8.0	14.0	13.5	17.5	16.5	17.5	17.0	13.5	13.5
25	3.5	3.5	10.0	8.5	14.0	13.5	17.0	16.5	17.0	16.5	13.5	13.5
26	3.5	3.5	9.5	8.5	14.5	13.5	17.0	16.5	16.5	16.5	13.5	13.5
27	3.5	3.5	8.5	7.5	15.0	13.5	16.5	16.5	17.0	16.5	13.5	13.5
28	4.0	3.5	9.5	7.5	15.5	14.0	17.0	16.5	17.0	16.5	13.5	13.0
29	4.5	3.5	9.5	8.5	16.0	15.5	17.0	16.5	16.5	16.5	13.0	13.0
30	4.5	4.0	9.5	8.5	16.0	15.5	17.0	16.5	16.5	16.0	13.0	13.0
31	---	---	10.0	8.5	---	---	17.5	16.5	16.5	16.0	---	---
MONTH	4.5	1.5	10.0	4.0	16.0	9.0	18.0	15.5	18.5	16.0	16.5	13.0
YEAR	18.5	0.5										

15297200 MYRTLE CREEK NEAR KODIAK

LOCATION.--Lat 57°36'16", long 152°24'09", in SW¼ sec.6, T.30 S., R.19 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on right bank 0.2 mi (0.3 km) upstream from mouth and 13 mi (21 km) south of Kodiak.

DRAINAGE AREA.--4.74 mi^2 (12.28 km^2).

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Records fair except those for Nov. 30 to Apr. 30, which are poor. Periodic high tides cause backwater at the gage and are shown on the stage record. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--13 years, 43.7 ft^3/s (1.238 m^3/s), 125.20 in/yr (3,180 mm/yr), 31,660 acre-ft/yr (39.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) Sept. 14, 1969, gage height, 5.02 ft (1.530 m), from rating curve extended above 310 ft^3/s (8.8 m^3/s) on the basis of slope-area measurements of peak flow; maximum gage height, 8.40 ft (2.560 m) Mar. 28, 1964, tidal wave caused by earthquake; minimum daily discharge, about 1.0 ft^3/s (0.028 m^3/s) Mar. 3-18, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft^3/s (16 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Aug. 6	0200	*675	19.1	*4.03	1.228	Sept. 1	2000	*675	19.1	*4.03	1.228
Aug. 25	1930	660	18.7	4.00	1.219						

Minimum daily discharge, 6.0 ft^3/s (0.17 m^3/s) Nov. 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	11	18	30	16	9.0	8.0	78	69	57	24	191
2	51	11	16	20	14	9.0	8.0	94	95	44	22	79
3	165	10	14	18	16	9.0	8.0	156	95	39	19	27
4	97	9.0	13	16	18	10	8.0	111	84	38	19	19
5	65	9.0	12	14	20	10	8.0	104	100	38	38	14
6	41	8.0	12	13	16	12	8.0	102	88	46	275	13
7	30	8.0	11	12	14	12	9.0	94	80	44	64	57
8	25	8.0	11	10	12	10	9.0	81	75	44	60	35
9	22	7.0	10	9.0	11	10	10	104	69	42	42	20
10	24	7.0	10	8.0	11	9.0	10	114	59	37	36	15
11	34	7.0	10	8.0	11	9.0	9.0	102	65	33	30	13
12	55	6.0	10	8.0	11	8.0	9.0	90	88	30	27	56
13	65	6.0	10	9.0	11	8.0	8.0	89	103	29	23	74
14	41	6.0	10	9.0	11	7.0	8.0	74	320	33	22	41
15	70	6.0	10	11	11	7.0	8.0	68	126	50	20	30
16	86	7.0	10	14	11	7.0	9.0	61	136	43	18	24
17	52	30	11	17	11	7.0	9.0	57	118	35	19	130
18	46	100	11	14	11	7.0	10	80	86	31	22	63
19	31	89	12	12	11	7.0	10	84	72	29	19	26
20	26	82	20	13	11	7.0	10	72	65	204	17	26
21	23	226	30	11	10	7.0	11	75	64	248	16	21
22	24	235	100	9.0	10	7.0	11	75	57	80	14	32
23	27	230	80	8.0	9.0	8.0	11	75	54	52	13	92
24	23	87	90	12	9.0	8.0	11	81	57	42	13	210
25	21	70	60	20	8.0	8.0	12	78	60	38	305	271
26	19	46	40	30	8.0	8.0	15	78	60	58	295	151
27	17	31	30	25	8.0	7.0	17	74	65	78	105	105
28	16	26	25	20	8.0	7.0	20	66	62	51	52	69
29	14	22	20	20	8.0	7.0	25	62	60	40	33	61
30	13	20	50	18	---	7.0	40	65	56	33	24	51
31	12	---	40	18	---	7.0	---	65	---	29	19	---
TOTAL	1300	1420.0	806	456.0	336.0	255.0	349.0	2609	2588	1695	1705	2016
MEAN	41.9	47.3	26.0	14.7	11.6	8.23	11.6	84.2	86.3	54.7	55.0	67.2
MAX	165	235	100	30	20	12	40	156	320	248	305	271
MIN	12	6.0	10	8.0	8.0	7.0	8.0	57	54	29	13	13
CFSM	8.84	9.98	5.49	3.10	2.45	1.74	2.45	17.8	18.2	11.5	11.6	14.2
IN.	10.20	11.14	6.32	3.58	2.64	2.00	2.74	20.47	20.31	13.30	13.38	15.82
AC-FT	2580	2820	1600	904	666	506	692	5170	5130	3360	3380	4000

CAL YR 1975 TOTAL 17526.5 MEAN 48.0 MAX 416 MIN 5.0 CFSM 10.1 IN 137.52 AC-FT 34760
WTR YR 1976 TOTAL 15535.0 MEAN 42.4 MAX 320 MIN 6.0 CFSM 8.95 IN 121.89 AC-FT 30810

NOTE.--No gage-height record Dec. 2 to April 18.

15297470 MONASHKA CREEK NEAR KODIAK

LOCATION.--Lat 57°50'34", long 152°26'44", in NE¼ sec.13, T.27 S., R.20 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on right bank 0.1 mi (0.2 km) downstream from unnamed tributary, 0.2 mi (0.3 km) upstream from Virginia Creek, and 4.0 mi (6.4 km) northeast of Kodiak.
DRAINAGE AREA.--5.51 mi² (14.27 km²).
PERIOD OF RECORD.--July 1972 to September 1976 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.
REMARKS.--Records good except those for Jan. 17 to Apr. 14 and those below about 4 ft³/s (0.1 m³/s), which are poor. Discharge data represent net flow remaining after intermittent diversion to Pillar Creek reservoir for municipal supply of Kodiak. Diversion began September 1973. Average diversion for water year 1976 3.7 ft³/s (0.10 m³/s). Periodic high tides cause backwater at the gage and are shown on the stage record. Several observations of water temperature were made during the year.
COOPERATION.--Records of diversion furnished by city of Kodiak.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 562 ft³/s (15.9 m³/s) Aug. 3, 1972, gage height, 9.84 ft (3.000 m); maximum gage height, 10.08 ft (3.072 m) Oct. 23, 1972, backwater from tide; minimum daily discharge, about 1.0 ft³/s (0.028 m³/s) Mar. 17 to Apr. 14, 1976.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 280 ft³/s (7.9 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 3	1300	348	9.86	9.05	2.758	Aug. 6	0700	*430	12.2	9.38	2.859
Apr. 16	0200	a		*9.63	2.935	Sept. 24	1000	285	8		

a Backwater from tide.
Minimum daily discharge, about 1.0 ft³/s (0.028 m³/s) Mar. 17 to Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	7.8	2.9	9.0	30	2.0	1.0	82	72	54	21	91
2	40	7.8	1.7	7.8	25	2.0	1.0	134	78	52	17	144
3	265	5.5	1.3	6.8	20	2.0	1.0	207	75	50	14	70
4	118	5.0	2.2	5.5	25	2.0	1.0	164	77	50	12	48
5	67	6.5	4.1	5.0	20	2.0	1.0	132	127	50	19	34
6	46	6.5	4.4	4.8	25	3.0	1.0	137	112	52	310	27
7	35	5.0	3.5	4.8	10	5.0	1.0	109	94	52	112	88
8	25	6.2	2.2	5.5	8.0	3.0	1.0	90	98	54	75	88
9	17	6.2	2.2	9.0	6.0	2.0	1.0	112	91	58	54	54
10	17	5.0	3.0	8.2	5.0	2.0	1.0	139	78	46	41	39
11	25	3.7	3.3	7.8	4.0	2.0	1.0	118	78	30	34	35
12	24	3.3	2.9	12	4.0	2.0	1.0	101	94	25	29	46
13	20	3.3	2.0	4.2	3.0	2.0	1.0	77	96	20	23	102
14	19	3.3	1.5	4.1	3.0	2.0	1.0	69	209	26	19	56
15	31	3.2	2.1	4.8	2.0	2.0	1.3	61	189	37	17	41
16	69	3.2	27	16	2.0	2.0	2.5	66	161	35	15	33
17	47	3.3	19	20	2.0	1.0	6.8	56	168	26	14	112
18	62	75	11	16	2.0	1.0	14	77	125	23	20	115
19	48	104	12	12	2.0	1.0	13	107	94	19	18	56
20	28	78	8.2	10	2.0	1.0	12	100	94	54	13	67
21	21	137	19	9.0	2.0	1.0	12	100	75	142	12	61
22	19	102	70	8.0	2.0	1.0	12	90	72	72	12	82
23	19	128	36	7.0	2.0	1.0	13	90	62	56	9.5	137
24	13	61	33	7.0	2.0	1.0	13	90	72	40	8.5	235
25	13	31	72	30	2.0	1.0	11	80	74	69	92	231
26	13	19	66	50	2.0	1.0	14	80	66	36	214	159
27	12	16	33	40	2.0	1.0	16	80	80	125	162	98
28	12	12	19	35	2.0	1.0	56	80	70	74	205	70
29	11	10	14	30	2.0	1.0	70	74	60	50	166	66
30	8.2	5.0	12	35	---	1.0	74	77	56	35	106	58
31	6.5	---	11	40	---	1.0	---	75	---	27	66	---
TOTAL	1192.7	862.8	501.5	464.3	218.0	52.0	354.6	3054	2897	1539	1930.0	2543
MEAN	38.5	28.8	16.2	15.0	7.52	1.68	11.8	98.5	96.6	49.6	62.3	84.8
MAX	265	137	72	50	30	5.0	74	207	209	142	310	235
MIN	6.5	3.2	1.3	4.1	2.0	1.0	1.0	56	56	19	8.5	27
AC-FT	2370	1710	995	921	432	103	703	6060	5750	3050	3830	5040

CAL YR 1975 TOTAL 15146.3 MEAN 41.5 MAX 320 MIN 1.3 AC-FT 30040
WTR YR 1976 TOTAL 15608.9 MEAN 42.6 MAX 310 MIN 1.0 AC-FT 30960

NOTE.--No gage-height record Jan. 17 to April 14.

ADJUSTED TO INCLUDE DIVERSION

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	40.9	30.9	16.8	18.6	10.9	6.06	15.5	101	101	55.0	67.7	91.3
CFSM	7.42	5.61	3.05	3.38	1.98	1.10	2.81	18.3	18.3	9.98	12.3	16.6
IN	8.56	6.26	3.52	3.88	2.14	1.27	3.14	21.03	20.45	11.51	14.18	18.48
AC-FT	2,520	1,840	1,030	1,140	629	373	924	6,180	6,010	3,380	4,170	5,430

CAL YR 1975 MEAN 45.1 CFSM 8.19 IN 111.01 AC-FT 32,620
WTR YR 1976 MEAN 46.3 CFSM 8.40 IN 114.43 AC-FT 33,630

15297900 ESKIMO CREEK AT KING SALMON

LOCATION.--Lat 58°41'08", long 156°40'08", in SW¼ sec.23, T.17 S., R.44 W., Hydrologic Unit 19040002, on left bank 30 ft (9.1 m) upstream from culvert on King Salmon-Naknek road, 0.3 mi (0.5 km) upstream from mouth, and 0.3 mi (0.5 km) northwest of King Salmon post office.

DRAINAGE AREA.--16.1 mi² (41.7 km²).

PERIOD OF RECORD.--Annual maximums, water years 1965-67, 1969-73. October 1973 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 20 ft (6 m), from topographic map. Prior to Oct. 18, 1973, crest-stage gage on right bank at datum 2.69 ft (0.820 m) lower.

REMARKS.--Records fair prior to Oct. 29 and from Apr. 29 to July 9, poor otherwise. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft³/s (6.43 m³/s) June 1967, gage height, 8.51 ft (2.594 m), present datum, from rating curve extended above 40 ft³/s (1.1 m³/s) on basis of computation of peak flow through culvert; maximum gage height, 8.72 ft (2.658 m) Aug. 19, 1976, backwater from beaver dam; minimum daily discharge, 3 ft³/s (0.085 m³/s) Feb. 19-24, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.72 ft (2.658 m) Aug. 19, backwater from beaver dam, discharge not determined; minimum daily discharge, about 4.0 ft³/s (0.11 m³/s) Feb. 6 to Mar. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	8.0	5.0	5.0	4.0	6.0	30	8.9	7.5	12	9.0
2	19	11	7.0	5.0	5.0	4.5	7.0	28	8.6	7.6	10	9.0
3	18	10	7.0	5.0	4.5	4.5	7.0	26	8.4	7.5	10	9.0
4	18	10	7.0	5.0	4.5	5.0	8.0	23	8.4	7.6	11	9.5
5	18	9.0	6.0	5.0	4.5	5.0	7.0	21	13	9.5	12	10
6	16	9.0	6.0	5.0	4.0	5.0	7.0	20	16	8.4	12	11
7	16	9.0	6.0	5.0	4.0	6.0	7.0	24	18	8.0	13	11
8	15	8.0	6.0	5.0	4.0	6.0	7.0	23	17	8.4	13	10
9	15	8.0	6.0	4.5	4.0	6.0	7.0	22	16	8.0	12	10
10	21	8.0	6.0	4.5	4.0	6.0	7.0	20	15	7.5	12	10
11	28	8.0	5.0	4.5	4.0	5.0	7.0	20	14	7.0	11	11
12	36	8.0	5.0	5.0	4.0	5.0	7.0	17	12	7.0	11	11
13	39	7.0	5.0	5.0	4.0	5.0	7.0	16	12	6.5	11	11
14	38	7.0	5.0	5.0	4.0	5.0	8.0	16	11	7.0	11	12
15	34	7.0	5.0	5.0	4.0	5.0	12	15	11	7.5	11	13
16	30	7.0	6.0	5.0	4.0	5.0	15	14	10	7.0	11	13
17	26	7.0	6.0	5.0	4.0	5.0	20	15	11	7.0	12	12
18	23	7.0	6.0	5.0	4.0	5.0	25	14	11	7.0	13	11
19	22	7.0	6.0	5.0	4.0	5.0	30	13	11	6.5	12	11
20	20	7.0	6.0	5.0	4.0	5.0	40	12	10	6.5	12	10
21	20	7.0	6.0	5.0	4.0	5.0	55	12	10	6.5	11	10
22	21	7.0	6.0	5.0	4.0	5.0	50	11	9.9	6.0	10	10
23	22	7.0	6.0	5.0	4.0	5.0	40	11	9.3	6.0	9.5	10
24	22	8.0	6.0	5.0	4.0	5.0	25	11	9.1	6.0	9.0	10
25	21	8.0	6.0	5.0	4.0	6.0	20	12	8.9	6.5	9.0	11
26	19	8.0	6.0	5.0	4.0	6.0	21	12	8.6	7.0	9.0	11
27	16	9.0	6.0	5.0	4.0	6.0	22	12	8.4	8.0	10	11
28	15	8.0	5.0	5.0	4.0	6.0	24	12	8.0	9.5	9.5	10
29	14	8.0	5.0	6.0	4.0	6.0	27	11	7.8	12	9.0	10
30	13	8.0	5.0	6.0	---	6.0	29	9.9	7.5	14	8.5	10
31	13	---	5.0	6.0	---	6.0	---	9.3	---	13	8.5	---
TOTAL	667	244.0	182.0	156.5	119.5	164.0	554.0	512.2	329.8	243.5	335.0	316.5
MEAN	21.5	8.13	5.87	5.05	4.12	5.29	18.5	16.5	11.0	7.85	10.8	10.6
MAX	39	12	8.0	6.0	5.0	6.0	55	30	18	14	13	13
MIN	13	7.0	5.0	4.5	4.0	4.0	6.0	9.3	7.5	6.0	8.5	9.0
CFSM	1.34	.50	.36	.31	.26	.33	1.15	1.02	.68	.49	.67	.66
IN.	1.54	.56	.42	.36	.28	.38	1.28	1.18	.76	.56	.77	.73
AC-FT	1320	484	361	310	237	325	1100	1020	654	483	664	628

CAL YR 1975 TOTAL 5608.2 MEAN 15.4 MAX 144 MIN 5.0 CFSM .96 IN 12.96 AC-FT 11120
WTR YR 1976 TOTAL 3824.0 MEAN 10.4 MAX 55 MIN 4.0 CFSM .65 IN 8.84 AC-FT 7580

NOTE.--No gage-height record Oct. 29 to April 28.

15300500 KVICHAK RIVER AT IGIUGIG

LOCATION.--Lat 59°19'44", long 155°53'57", in NE¼ sec.7, T.10 S., R.39 W., Hydrologic Unit 19040002, on left bank 0.7 mi (1.1 km) downstream from outlet of Iliamna Lake at Igiugig.

DRAINAGE AREA.--6,500 mi^2 (16,800 km^2), approximately.

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 45 ft (14 m), from topographic map. Prior to Oct. 1, 1969, nonrecording gage at site 1,500 ft (460 m) upstream at different datum.

REMARKS.--Records good except those for periods of no gage-height record, Nov. 19 to Apr. 21 and Apr. 29 to July 5, which are poor. Discharge affected by storage in Lake Iliamna, Lake Clark, and other smaller lakes covering over 1,100 mi^2 (2,800 km^2). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 16,590 ft^3/s (469.8 m^3/s), 34.66 in/yr (880 mm/yr), 12,020,000 acre-ft/yr (14.8 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 43,000 ft^3/s (1,220 m^3/s) Sept. 21, 22, 1967; minimum daily, 6,400 ft^3/s (181 m^3/s) Apr. 21,22, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,800 ft^3/s (759 m^3/s) Oct. 11, gage height, 21.32 ft (6.498 m); minimum daily, 8,000 ft^3/s (2[illegible] m^3/s) Apr. 29 to May 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25800	22000	21000	16000	13000	11000	8500	8000	9000	14000	17000	20700
2	25800	22000	21000	16000	13000	11000	8500	8000	9000	14000	17300	19800
3	25600	22000	21000	16000	13000	11000	8500	8000	9000	14000	17500	19200
4	25200	22000	21000	16000	13000	11000	8500	8000	9000	14000	17800	19000
5	25100	22100	21000	16000	13000	11000	8500	8000	9000	14000	18100	19100
6	25200	22200	20000	16000	13000	10000	8500	8000	9500	14800	18500	19700
7	25200	22300	20000	16000	13000	10000	8500	8000	9500	14800	18400	20000
8	24900	22400	20000	16000	13000	10000	8500	8000	9500	14600	18600	18800
9	25200	22500	20000	16000	13000	10000	8500	8000	9500	14800	18400	18700
10	24600	22600	20000	16000	13000	10000	8500	8000	9500	15000	18400	18700
11	25900	22800	20000	15000	12000	9500	8500	8000	10000	15400	18500	19100
12	26000	22900	20000	15000	12000	9500	8500	8000	10000	15600	18200	19300
13	26000	23000	20000	15000	12000	9500	8500	8000	10000	15800	18400	19000
14	25500	23100	20000	15000	12000	9500	8500	8000	10000	15600	18600	19300
15	25000	23200	20000	15000	12000	9500	8500	8000	10000	15700	18700	18700
16	24500	23200	19000	15000	12000	9000	8500	8000	11000	15600	18700	19000
17	24500	23600	19000	15000	12000	9000	8500	8000	11000	15600	19200	21900
18	24600	23600	19000	15000	12000	9000	8500	8000	11000	16000	19100	20000
19	24500	23500	19000	15000	12000	9000	8500	8000	11000	16800	18700	19600
20	24300	23000	19000	15000	12000	9000	8500	8000	11000	17100	18900	19300
21	24100	23000	18000	14000	11000	9000	8500	8500	12000	16600	18900	19500
22	23900	22500	18000	14000	11000	9000	8220	8500	12000	16600	18900	20000
23	23700	22500	18000	14000	11000	9000	8080	8500	12000	16900	18900	20500
24	23500	22000	18000	14000	11000	9000	8140	8500	12000	16800	20000	21000
25	23300	22000	18000	14000	11000	9000	8180	8500	12000	16900	20400	21000
26	23100	22000	17000	14000	11000	8500	8140	9000	13000	17400	19300	21500
27	23000	22000	17000	14000	11000	8500	8180	9000	13000	17300	19600	22000
28	22900	22000	17000	14000	11000	8500	8190	9000	13000	17900	19600	22000
29	22800	22000	17000	14000	11000	8500	8000	9000	13000	17600	19600	22500
30	22500	22000	17000	14000	---	8500	8000	9000	13000	17300	19600	23000
31	22300	---	17000	14000	---	8500	---	9000	---	17400	20000	---
TOTAL	758500	676000	592000	464000	349000	293500	251620	256500	322500	491900	581800	601900
MEAN	24470	22530	19100	14970	12030	9468	8387	8274	10750	15870	18770	20060
MAX	26000	23600	21000	16000	13000	11000	8500	9000	13000	17900	20400	23000
MIN	22300	22000	17000	14000	11000	8500	8000	8000	9000	14000	17000	18700
CFSM	3.76	3.47	2.94	2.30	1.85	1.46	1.29	1.27	1.65	2.44	2.89	3.09
IN.	4.34	3.87	3.39	2.66	2.00	1.68	1.44	1.47	1.85	2.82	3.33	3.44
AC-FT	1504000	1341000	1174000	920300	692200	582200	499100	508800	639700	975700	1154000	1194000

CAL YR 1975 TOTAL 6013300 MEAN 16470 MAX 26000 MIN 9000 CFSM 2.53 IN 34.41 AC-FT 11930000
WTR YR 1976 TOTAL 5639220 MEAN 15410 MAX 26000 MIN 8000 CFSM 2.37 IN 32.27 AC-FT 11190000

15302000 NUYAKUK RIVER NEAR DILLINGHAM

LOCATION.--Lat 59°56'04", long 158°11'05", in NE¼ sec.10, T.3 S., R.52 W., Hydrologic Unit 19040002, on left bank 1,000 ft (300 m) downstream from Tikchik Lake, 0.5 mi (0.8 km) upstream from unnamed tributary, and 62 mi (100 km) north of Dillingham.

DRAINAGE AREA.--1,490 mi^3 (3,860 km^2), approximately.

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WRD Alaska 1972: 1971.

GAGE.--Water-stage recorder. Altitude of gage is 325 ft (99 m), from topographic map. Prior to Oct. 1, 1957, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for period of no gage-height record, Oct. 24 to May 22, which are poor. Discharge affected by storage in Tikchik Lake, Nuyakuk Lake, Lake Chanekuktuli, and other smaller lakes in the basin covering over 170 mi^2 (440 km^2). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--23 years, 5,769 ft^3/s (163.4 m^3/s), 52.58 in/yr (1,336 mm/yr), 4,180,000 acre-ft/yr (5.15 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) June 20, 21, 1969, gage height, 10.01 ft (3.051 m), in gage well, 10.70 ft (3.261 m), from floodmarks; minimum daily, about 770 ft^3/s (21.8 m^3/s) Apr. 16-30, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,600 ft^3/s (385 m^3/s) June 29, gage height, 6.30 ft (1.920 m); minimum daily, about 900 ft^3/s (25 m^3/s) Apr. 2-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8600	6600	3600	2100	1700	1100	950	950	5870	13500	9000	8440
2	8630	6200	3600	2100	1600	1100	900	950	6090	13400	8820	8850
3	8600	6000	3500	2000	1600	1100	900	950	6390	13400	8700	9260
4	8360	5800	3400	2000	1600	1100	900	1000	6630	13200	8510	9350
5	8090	5600	3300	1900	1600	1100	900	1000	7090	12900	8240	9260
6	7850	5500	3200	1900	1600	1000	900	1000	7780	12700	8230	9120
7	7630	5300	3200	1900	1500	1000	900	1000	8330	12500	8400	9120
8	7440	5200	3100	1900	1500	1000	900	1100	8700	12300	8390	9180
9	7210	5100	3000	1800	1500	1000	900	1100	9030	12000	8520	9090
10	7120	5000	3000	1800	1400	1000	900	1100	9340	11700	8580	8950
11	7220	4900	2900	1800	1400	1000	900	1200	9800	11500	8560	8750
12	7680	4900	2800	1800	1400	1000	900	1200	10500	11300	8480	8690
13	7950	4800	2700	1800	1300	1000	900	1300	11100	11100	8310	8740
14	7920	4800	2700	1700	1300	1000	900	1400	11600	10900	8260	8820
15	8000	4700	2600	1700	1300	1000	900	1500	12000	10600	8220	9070
16	8060	4700	2500	1700	1300	950	900	1700	12400	10400	8080	9020
17	7940	4700	2500	1700	1300	950	900	1900	12800	10200	7890	9090
18	8000	4600	2400	1700	1300	950	900	2200	13000	9850	7890	9620
19	7840	4500	2400	1700	1300	950	900	2500	13200	9560	7960	10500
20	7580	4500	2400	1700	1200	950	900	2900	13300	9440	8000	11000
21	7510	4400	2400	1700	1200	950	900	3200	13300	9700	7890	11100
22	7270	4400	2400	1700	1200	950	900	3500	13400	9840	7730	11300
23	7350	4300	2300	1700	1200	950	900	3870	13400	9750	7500	11300
24	7500	4200	2300	1700	1200	950	900	4240	13400	9730	7260	11300
25	7600	4100	2300	1700	1200	950	900	4590	13500	9660	7290	11300
26	7600	4000	2300	1700	1100	950	900	4910	13500	9420	8190	11200
27	7600	4000	2300	1700	1100	950	900	5150	13500	9200	8550	11100
28	7600	3900	2300	1700	1100	950	900	5340	13500	9150	8700	11100
29	7600	3800	2200	1700	1100	950	950	5470	13600	9220	8720	11000
30	7400	3700	2200	1700	---	950	950	5580	13600	9240	8700	10900
31	7000	---	2200	1700	---	950	---	5720	---	9170	8520	---
TOTAL	239750	144200	84000	55400	39100	30700	27150	79520	329650	336530	256090	295520
MEAN	7734	4807	2710	1787	1348	990	905	2565	10990	10860	8261	9851
MAX	8630	6600	3600	2100	1700	1100	950	5720	13600	13500	9000	11300
MIN	7000	3700	2200	1700	1100	950	900	950	5870	9150	7260	8440
CFSM	5.19	3.23	1.82	1.20	.90	.66	.61	1.72	7.38	7.29	5.54	6.61
IN.	5.99	3.60	2.10	1.38	.98	.77	.68	1.99	8.23	8.40	6.39	7.38
AC-FT	475500	286000	166600	109900	77550	60890	53850	157700	653900	667500	508000	586200

CAL YR 1975 TOTAL 2078890 MEAN 5696 MAX 18600 MIN 1600 CFSM 3.82 IN 51.90 AC-FT 4123000
WTR YR 1976 TOTAL 1917610 MEAN 5239 MAX 13600 MIN 900 CFSM 3.52 IN 47.88 AC-FT 3804000

15303100 EAST CREEK NEAR DILLINGHAM

LOCATION.--Lat 59°11'39", long 158°49'17", in NE¼SW¼ sec.26, T.11 S., R.57 W., Hydrologic Unit 19040002, on right bank 0.5 mi (0.8 km) upstream from mouth at Lake Nunavugaluk, and 15 mi (24 km) northwest of Dillingham.

DRAINAGE AREA.--2.12 mi^2 (5.49 km^2). A significantly larger area contributes to ground-water base flow.

PERIOD OF RECORD.--Water years 1974 to July 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to July 1976 (discontinued).

INSTRUMENTATION.--Temperature recorder since Oct. 25, 1973.

REMARKS.--Temperature recorder clock stopped May 15-18 (range in temperature 1.5 to 4.0°C). No record July 7-31. Water discharge records were published for period August 1973 to September 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 9.0°C June 29, 1976; minimum, 0.0°C on some days during winter periods most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 9.0°C June 29; minimum, 0.5°C on some days during winter period.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1975 TO JULY 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	4.0	1.5	1.0	1.0	1.0	2.0	1.5	0.5	0.5	1.5	0.5
2	4.0	3.5	1.5	1.5	1.0	1.0	1.5	1.5	1.0	0.5	1.0	0.5
3	3.5	3.5	1.5	1.0	1.0	1.0	1.5	1.0	2.0	1.0	2.0	1.0
4	3.5	3.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.0
5	3.5	3.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.0
6	3.0	2.5	2.0	2.0	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.0
7	3.5	3.0	2.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	2.0	1.5
8	3.0	3.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	2.5	1.5
9	3.0	2.5	2.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	2.0	1.0
10	4.0	3.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0
11	4.0	4.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5
12	4.0	4.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
13	4.0	3.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.0	1.0	0.5
14	3.5	3.0	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	1.0	0.5
15	3.5	3.5	1.5	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5
16	3.5	3.0	1.5	1.0	2.0	2.0	1.5	1.0	1.5	1.5	0.5	0.5
17	3.0	3.0	1.5	1.0	2.0	2.0	1.5	1.5	2.0	1.5	0.5	0.5
18	3.0	3.0	1.5	1.5	2.0	2.0	2.0	1.5	2.0	1.0	0.5	0.5
19	3.0	2.5	2.0	1.5	2.0	1.5	2.0	1.0	1.5	1.0	0.5	0.5
20	3.0	2.5	2.0	2.0	1.5	1.5	1.0	1.0	1.5	1.0	0.5	0.5
21	3.5	3.0	2.0	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	0.5
22	3.5	3.5	2.0	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	0.5
23	3.5	3.5	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.5
24	3.5	3.0	2.0	1.5	2.0	1.5	1.0	0.5	1.0	1.0	1.0	0.5
25	3.0	2.5	2.5	2.0	1.5	1.5	0.5	0.5	1.0	1.0	1.0	0.5
26	2.5	2.0	2.5	1.5	2.0	1.5	1.0	0.5	1.0	1.0	1.5	1.0
27	3.0	2.5	2.0	2.0	1.5	1.0	1.5	1.0	1.0	1.0	1.5	0.5
28	3.0	2.0	2.0	1.5	1.5	1.0	2.0	1.0	1.0	1.0	1.0	0.5
29	2.0	1.5	1.5	1.5	1.0	1.0	2.0	1.5	1.5	1.0	1.0	0.5
30	1.5	1.5	1.5	1.0	1.5	0.5	1.5	1.0	---	---	1.0	0.5
31	1.5	1.5	---	---	2.0	1.5	1.0	0.5	---	---	2.0	1.0
MONTH	4.0	1.5	2.5	1.0	2.0	0.5	2.0	0.5	2.0	0.5	2.5	0.5

15303100 EAST CREEK NEAR DILLINGHAM--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1975 TO JULY 1976--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.5	1.0	5.0	2.0	6.0	4.0	7.0	5.5				
2	3.0	1.0	4.0	2.0	5.5	4.0	6.5	5.5				
3	3.0	2.0	3.5	2.0	5.0	4.0	7.0	5.5				
4	2.5	1.5	3.0	2.0	5.0	3.5	7.0	5.5				
5	2.5	0.5	3.0	2.0	4.5	3.5	7.0	5.0				
6	2.5	1.0	2.5	1.5	4.5	3.5	7.0	5.5				
7	2.0	1.0	3.0	1.5	6.5	3.5	---	---				
8	3.5	1.5	3.5	2.0	5.5	4.0	---	---				
9	3.5	2.0	3.0	1.5	6.0	3.5	---	---				
10	3.5	2.0	3.0	1.5	7.5	4.0	---	---				
11	3.5	1.5	3.5	1.5	7.5	4.0	---	---				
12	3.5	1.5	2.5	1.5	7.5	4.5	---	---				
13	3.0	0.5	4.0	2.0	7.0	4.5	---	---				
14	3.0	0.5	4.5	2.0	5.5	4.5	---	---				
15	2.5	1.0	---	---	4.5	4.0	---	---				
16	3.5	1.0	---	---	5.0	4.5	---	---				
17	5.0	2.5	---	---	5.0	4.0	---	---				
18	4.0	2.5	---	---	5.0	4.5	---	---				
19	5.0	2.5	4.0	2.0	5.5	4.5	---	---				
20	3.5	1.5	4.5	2.5	7.5	4.0	---	---				
21	3.5	2.0	5.0	2.5	5.5	4.5	---	---				
22	5.0	2.5	4.0	3.0	7.0	5.0	---	---				
23	4.0	1.5	5.5	2.5	8.0	5.0	---	---				
24	4.0	1.5	4.0	3.0	8.0	5.0	---	---				
25	4.0	1.0	6.0	3.0	7.5	5.5	---	---				
26	4.0	2.0	6.0	3.0	8.5	5.0	---	---				
27	4.5	3.0	5.5	3.5	8.5	5.0	---	---				
28	5.0	2.0	6.5	3.0	8.5	5.5	---	---				
29	6.0	2.5	6.5	3.0	9.0	5.5	---	---				
30	6.0	2.5	6.5	3.0	8.0	5.5	---	---				
31	---	---	5.5	4.0	---	---	---	---				
MONTH	6.0	0.5	6.5	1.5	9.0	3.5	---	---				
YEAR	9.0	0.5										

15303150 SNAKE RIVER NEAR DILLINGHAM

LOCATION.--Lat 59°08'54", long 158°53'14", in NW¼SW¼ sec.9, T.12 S., R.57 W., Hydrologic Unit 19040002, on right bank at outlet of Lake Nunavaugaluk, 15 mi (24 km) northwest of Dillingham.

DRAINAGE AREA.--113 mi² (293 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 34 ft (10.4 m), from topographic map.

REMARKS.--Water-discharge records fair prior to Nov. 23 and from May 25 to July 7, poor otherwise. Discharge affected by storage in Lake Nunavaugaluk, surface area of 32 mi² (83 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft³/s (45.9 m³/s) June 8, 1975, gage height, 5.95 ft (1.814 m); minimum daily, about 90 ft³/s (2.55 m³/s) Apr. 24 to May 2, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 16, gage height, 5.48 ft (1.670 m); minimum daily, about 90 ft³/s (2.55 m³/s) Apr. 24 to May 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	938	629	460	320	240	160	100	90	922	622	270	270
2	906	601	460	300	240	160	100	90	946	608	260	300
3	866	594	440	300	240	160	100	95	970	594	250	340
4	810	580	440	300	220	160	100	95	994	580	240	400
5	762	573	440	300	220	160	100	95	1020	566	240	410
6	714	566	420	280	220	160	100	100	1050	559	230	400
7	682	559	420	280	220	150	100	100	1080	538	230	380
8	629	558	400	280	220	150	100	100	1090	520	230	360
9	601	554	400	260	200	150	95	110	1090	500	230	340
10	682	552	380	260	200	150	95	110	1080	480	230	320
11	786	550	380	260	200	150	95	120	1100	460	230	300
12	882	548	360	260	200	150	95	120	1110	450	230	300
13	906	546	360	260	200	140	95	120	1130	440	220	320
14	914	542	360	260	200	140	95	130	1150	420	220	340
15	922	542	360	260	200	140	95	140	1150	410	220	360
16	906	540	340	260	200	140	95	150	1140	400	210	420
17	882	540	340	260	200	130	95	150	1120	420	200	500
18	850	538	340	260	190	130	95	170	1100	420	200	600
19	802	538	340	240	190	130	95	200	1070	410	190	720
20	762	524	340	240	190	130	95	240	1030	380	190	880
21	738	524	340	240	190	120	95	280	1000	360	180	950
22	770	517	340	240	190	120	95	340	962	350	180	1000
23	826	510	340	240	180	120	95	400	914	360	170	1000
24	890	500	340	240	180	110	90	500	882	350	170	1100
25	866	500	320	240	180	110	90	622	834	330	170	1100
26	842	500	320	240	180	110	90	682	762	320	210	1100
27	826	480	320	240	170	110	90	738	682	300	250	1100
28	794	480	320	240	170	110	90	794	666	290	270	1000
29	778	480	320	240	170	100	90	834	643	290	280	1000
30	730	460	320	240	---	100	90	874	629	280	280	1000
31	674	---	320	240	---	100	---	898	---	280	280	---
TOTAL	24936	16125	113[illegible]	8080	5800	4150	2855	9487	29316	13287	6960	18610
MEAN	804	538	367	261	200	134	95.2	306	977	429	225	620
MAX	938	629	460	320	240	160	100	898	1150	622	280	1100
MIN	601	460	320	240	170	100	90	90	629	280	170	270
CFSM	7.12	4.76	3.25	2.31	1.77	1.19	.84	2.71	8.65	3.80	1.99	5.49
IN.	8.21	5.31	3.75	2.66	1.91	1.37	.94	3.12	9.65	4.37	2.29	6.13
AC-FT	49460	31980	22570	16030	11500	8230	5660	18820	58150	26350	13810	36910

CAL YR 1975 TOTAL 193232 MEAN 529 MAX 1610 MIN 160 CFSM 4.68 IN 63.61 AC-FT 383300
WTR YR 1976 TOTAL 150986 MEAN 413 MAX 1150 MIN 90 CFSM 3.65 IN 49.70 AC-FT 299500

NOTE.--No gage-height record Nov. 24 to May 24 and July 8 to Sept. 30.

15303150 SNAKE RIVER NEAR DILLINGHAM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1974 to current year.

INSTRUMENTATION.--Temperature recorder since Aug. 22, 1974.

REMARKS.--No record Dec. 6 to Jan. 10, Apr. 9-21, and Sept. 22-30. Temperature recorder clock stopped July 8 to Sept. 21 (range in temperature 5.0 to 15.0°C).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.0°C Aug. 2, 11, 1975; minimum, 0.0°C on many days during winter periods most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 15.0°C during July or August; minimum not determined.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	2.0	1.5	1.5	1.0	---	---	1.5	1.5	1.0	1.0
2	9.0	8.5	2.0	1.5	1.5	1.5	---	---	1.5	1.0	1.0	1.0
3	8.5	7.5	4.0	2.0	1.5	1.5	---	---	1.0	1.0	1.0	1.0
4	8.0	6.5	4.0	2.0	1.5	1.5	---	---	1.0	1.0	1.0	1.0
5	7.5	6.0	2.0	1.5	1.5	1.5	---	---	1.0	1.0	1.0	1.0
6	7.0	7.0	2.5	1.5	---	---	---	---	1.0	1.0	1.0	1.0
7	7.5	7.0	3.5	1.5	---	---	---	---	1.5	1.0	1.5	1.0
8	7.5	6.5	3.5	2.0	---	---	---	---	1.5	1.5	1.0	1.0
9	7.0	6.0	2.5	1.5	---	---	---	---	1.5	1.5	1.5	1.0
10	7.0	6.5	3.0	1.5	---	---	---	---	1.5	1.5	1.5	1.0
11	7.0	6.5	3.0	2.5	---	---	1.5	1.5	1.5	1.5	1.5	1.0
12	7.0	6.0	3.0	2.5	---	---	1.5	1.5	1.5	1.0	1.5	1.5
13	7.5	7.0	3.5	2.5	---	---	1.5	1.5	1.0	1.0	1.5	1.5
14	7.0	7.0	3.0	2.0	---	---	1.5	1.5	1.0	1.0	1.5	1.5
15	7.0	6.5	2.5	2.0	---	---	1.5	1.0	1.0	1.0	1.5	1.5
16	7.0	6.0	2.5	1.5	---	---	1.0	1.0	1.0	1.0	1.5	1.5
17	7.0	6.0	1.5	1.5	---	---	1.0	1.0	1.0	1.0	1.5	1.5
18	6.5	5.0	2.0	1.5	---	---	1.0	1.0	1.0	1.0	1.5	1.5
19	6.0	5.0	1.5	1.0	---	---	1.0	1.0	1.0	1.0	1.5	1.5
20	6.5	5.5	2.5	1.5	---	---	1.5	1.0	1.0	1.0	1.5	1.0
21	6.5	6.5	1.5	1.0	---	---	1.5	1.5	1.5	1.0	1.0	1.0
22	6.5	6.0	1.0	1.0	---	---	1.5	1.5	1.5	1.5	1.0	1.0
23	6.0	6.0	1.5	1.0	---	---	1.5	1.5	1.5	1.5	1.0	0.5
24	6.0	4.5	1.5	1.0	---	---	1.5	1.0	1.5	1.5	0.5	0.5
25	4.5	4.0	2.0	1.0	---	---	1.0	1.0	1.5	1.5	0.5	0.5
26	5.0	4.5	2.5	2.0	---	---	1.0	1.0	1.5	1.5	0.5	0.5
27	5.0	5.0	2.5	1.0	---	---	1.0	1.0	1.5	1.5	1.0	0.5
28	5.0	4.5	1.5	1.0	---	---	1.0	1.0	1.5	1.5	1.0	0.5
29	4.5	1.5	1.0	1.0	---	---	1.0	1.0	1.5	1.0	1.0	1.0
30	2.5	1.5	1.0	1.0	---	---	1.0	1.0	---	---	1.0	1.0
31	3.5	2.0	---	---	---	---	1.5	1.0	---	---	1.0	1.0
MONTH	9.0	1.5	4.0	1.0	---	---	---	---	1.5	1.0	1.5	0.5

15303150 SNAKE RIVER NEAR DILLINGHAM--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	1.0	3.0	1.0	4.0	3.5	7.5	5.0				
2	1.0	1.0	3.0	1.0	4.0	2.5	7.0	5.0				
3	1.0	1.0	3.0	1.0	4.0	3.5	6.0	5.0				
4	1.5	1.0	2.5	1.5	4.0	3.0	6.0	5.5				
5	1.5	1.5	2.5	1.5	4.0	3.0	6.0	5.5				
6	1.5	1.5	2.5	1.5	4.0	3.0	7.5	5.5				
7	1.5	1.5	2.5	1.5	4.5	3.5	10.5	6.5				
8	1.5	1.5	3.0	1.5	5.0	4.0	---	---				
9	---	---	3.0	1.0	5.5	4.0	---	---				
10	---	---	3.0	1.5	6.5	3.0	---	---				
11	---	---	3.0	2.0	5.5	3.0	---	---				
12	---	---	2.0	1.5	6.0	4.5	---	---				
13	---	---	2.0	1.5	7.0	4.0	---	---				
14	---	---	2.0	1.5	6.0	5.0	---	---				
15	---	---	2.0	1.5	7.0	6.0	---	---				
16	---	---	2.0	1.5	7.0	6.0	---	---				
17	---	---	2.0	2.0	6.5	5.5	---	---				
18	---	---	2.0	2.0	6.0	5.0	---	---				
19	---	---	2.5	2.0	5.0	4.5	---	---				
20	---	---	2.0	2.0	6.0	4.5	---	---				
21	---	---	2.5	2.0	6.5	5.0	---	---				
22	2.0	1.0	2.0	2.0	7.0	5.5	---	---				
23	2.0	1.0	3.0	2.0	7.5	5.5	---	---				
24	2.0	1.0	2.5	2.5	7.0	5.5	---	---				
25	2.0	1.0	3.0	2.5	6.5	5.0	---	---				
26	1.0	1.0	3.0	3.0	6.5	5.0	---	---				
27	1.5	1.0	3.0	3.0	6.5	5.0	---	---				
28	1.5	1.0	3.5	3.0	7.0	5.0	---	---				
29	4.0	1.0	3.5	3.0	7.0	5.0	---	---				
30	1.5	1.0	4.0	3.0	7.0	5.5	---	---				
31	---	---	3.5	3.5	---	---	---	---				
MONTH	---	---	4.0	1.0	7.5	2.5	---	---				

15304000 KUSKOKWIM RIVER AT CROOKED CREEK
(National stream-quality accounting and radiochemical networks station)

LOCATION.--Lat 61°52'10", long 158°06'42", in NE¼ sec.32, T.21 N., R.48 W., Hydrologic Unit 19040001, on right bank at village of Crooked Creek, 0.2 mi (0.3 km) upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi² (80,500 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 200 ft (61 m), from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 20 to May 17, which are poor.

AVERAGE DISCHARGE.--25 years, 42,970 ft³/s (1,217 m³/s), 18.76 in/yr (477 mm/yr), 31,130,000 acre-ft/yr (38.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 392,000 ft³/s (11,100 m³/s) June 5, 1964, gage height, 25.74 ft (7.846 m); maximum gage height, 26.36 ft (8.034 m) about May 16, 1968, from floodmarks, backwater from ice; minimum daily discharge, about 6,100 ft³/s (170 m³/s) Mar. 1-31, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 183,000 ft³/s (5,180 m³/s) about May 14, gage height, 15.16 ft (4.621 m), from floodmarks; minimum daily, about 8,500 ft³/s (240 m³/s) Apr. 16-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62600	29000	14000	11000	10000	10000	9500	16000	59200	48100	52600	36000
2	60000	28000	13000	11000	10000	10000	9500	18000	58000	49000	51200	35000
3	58400	27000	13000	11000	10000	10000	9000	20000	55000	50800	48700	34000
4	55600	26000	13000	11000	10000	10000	9000	25000	56000	59000	49400	33300
5	53300	25000	13000	11000	10000	10000	9000	30000	60000	61800	49900	32500
6	52000	24000	13000	11000	10000	9500	9000	40000	64000	61600	50300	31900
7	47900	23000	13000	11000	10000	9500	9000	50000	69100	61100	50700	30900
8	46500	22000	13000	11000	10000	9500	9000	60000	74000	58600	51200	30800
9	45500	21000	13000	11000	10000	9500	9000	80000	74600	55600	50300	29700
10	43000	20000	12000	11000	10000	9500	9000	95000	85900	51700	50200	29300
11	44100	20000	12000	11000	10000	9500	9000	120000	89000	52500	49400	28700
12	45100	19000	12000	11000	10000	9500	9000	150000	73700	52700	47000	28800
13	45800	19000	12000	11000	10000	9500	9000	170000	78800	52200	45300	28300
14	46200	18000	12000	10000	10000	9500	9000	180000	77000	47900	45600	28000
15	46200	18000	12000	10000	10000	9500	9000	160000	75000	48600	44900	27800
16	45100	17000	12000	10000	10000	9500	8500	140000	69100	49200	45000	27800
17	44100	17000	12000	10000	10000	9500	8500	125000	68400	48500	44900	27800
18	43000	16000	11000	10000	10000	9500	8500	113000	66400	48300	45600	28800
19	41600	16000	11000	10000	10000	9500	8500	103000	64500	48400	44900	28700
20	41000	15000	11000	10000	10000	9500	8500	92900	62000	49400	44600	28600
21	40000	15000	11000	10000	10000	9500	8500	90000	60100	47900	45600	30200
22	39000	15000	11000	10000	10000	9500	8500	95000	55600	47100	44600	30600
23	38000	15000	11000	10000	10000	9500	9500	100000	52000	47200	44600	31300
24	37000	15000	11000	10000	10000	9500	9500	110000	49300	47000	43200	31300
25	36000	14000	11000	10000	10000	9500	9500	114000	45800	47000	41400	31100
26	35000	14000	11000	10000	10000	9500	10000	122000	44600	47500	40800	30800
27	34000	14000	11000	10000	10000	9500	11000	111000	44400	46300	39900	30800
28	33000	14000	11000	10000	10000	9500	12000	105000	44900	45500	38800	31000
29	32000	14000	11000	10000	10000	9500	13000	93100	45300	45300	38400	31200
30	31000	14000	11000	10000	---	9500	14000	73400	46300	46000	37200	31600
31	30000	---	11000	10000	---	9500	---	65300	---	48100	36900	---
TOTAL	1352000	564000	368000	323000	290000	297000	284000	2866700	1868000	1569900	1413100	916600
MEAN	43610	18800	11870	10420	10000	9581	9467	92470	62270	50640	45580	30550
MAX	62600	29000	14000	11000	10000	10000	14000	180000	89000	61800	52600	36000
MIN	30000	14000	11000	10000	10000	9500	8500	16000	44400	45300	36900	27800
CFSM	1.40	.60	.38	.34	.32	.31	.30	2.97	2.00	1.63	1.47	.98
IN.	1.62	.67	.44	.39	.35	.36	.34	3.43	2.23	1.88	1.69	1.10
AC-FT	2682000	1119000	729900	640700	575200	589100	563300	5686000	3705000	3114000	2803000	1818000

CAL YR 1975 TOTAL 14506400 MEAN 39740 MAX 161000 MIN 9000 CFSM 1.28 IN 17.35 AC-FT 28770000
WTR YR 1976 TOTAL 12112300 MEAN 33090 MAX 180000 MIN 8500 CFSM 1.06 IN 14.49 AC-FT 24020000

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951, 1955-72, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
DEC 21...	1000	10600	250	7.9	-20.0	.0	--	4	--	--	<1
APR 16...	1330	8730	235	7.2	--	.0	--	3	--	--	<1
JUN 09...	1900	77200	115	--	14.5	7.5	65	24	11.3	#31	#28
JUL 29...	1700	45500	180	7.8	14.0	15.0	10	87	--	--	#13
SEP 24...	1900	31900	200	7.9	--	6.0	10	8	12.5	--	#3
29...	1500	31600	195	--	--	5.5	--	--	--	--	--

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 21...	37	120	14	36	7.6	2.3	1.0	131	0	2.6
APR 16...	<1	130	16	35	9.5	2.9	1.0	135	0	14
JUN 09...	#34	54	4	16	3.5	1.6	.8	61	--	--
JUL 29...	#33	93	17	28	5.7	1.7	1.1	93	0	2.4
SEP 24...	#12	90	15	26	6.1	2.0	.8	92	0	1.9
29...	--	--	--	--	--	--	.8	--	--	--

# Non-ideal colony count

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 21...	16	.3	.2	11	143	139	.21	.14	.35	.01
APR 16...	19	.3	.2	11	147	146	.27	.02	.29	.01
JUN 09...	8.2	1.1	.1	6.3	79	68	.16	.28	.44	.13
JUL 29...	22	.7	.2	6.3	118	112	.09	.33	.42	.16
SEP 24...	16	.6	.2	7.5	102	105	.02	.59	.61	.06
29...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)
APR 16...	1330	3	2	1	<10	<10	0	10	0	10	<50	<48
JUL 29...	1700	5	4	1	<10	<10	0	20	20	0	<50	<50
SEP 24...	1900	2	1	1	<10	<10	0	0	0	0	<50	<50
29...	1500	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)
APR 16...	2	10	13	0	760	150	<100	<99	1	30	10
JUL 29...	0	20	20	0	8400	40	<100	<100	0	210	210
SEP 24...	0	<10	<9	1	1100	80	<100	<100	0	20	20
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR 16...	20	.0	.0	.0	--	1	1	0	50	50	0
JUL 29...	0	.1	.0	.2	--	1	0	1	40	40	0
SEP 24...	0	.1	.0	.2	2	0	0	0	0	0	0
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)	DISSOLVED URANIUM (U) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 16...	150	64	<2.2	<.7	1.3	<.4	1.1	<.4	.09	--	.60	1.0
JUL 29...	--	--	--	--	--	--	--	--	--	--	--	3.7
SEP 24...	--	--	--	--	--	--	--	--	--	--	--	2.2
29...	130	15	2.2	1.1	1.8	2.3	1.5	2.0	.04	.7	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M
DEC 21...	1000	--	8	--	--	--	--
APR 16...	1330	--	4	--	--	--	--
JUN 09...	1900	--	370	--	--	--	--
JUL 29...	1700	--	320	--	--	--	--
SEP 24...	1900	57	2500	2.46	3.46	.000	.862

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
DEC 21	1000	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
		....H.ARCUS				
		D .....H.ARCUS		3	33	
		...CYMBELLACEAE				
		D ....CYMBELLA		3	33	
		...FRAGILARIACEAE				
		L ....ASTERIONELLA			0	
		D ....SYNEDRA		3	33	
		...NAVICULACEAE	NAVICULOID			
		L ....NAVICULA			0	
		...NITZSCHIACEAE				
		L ....NITZSCHIA			0	
			TOTALS	8	99	
		TOTAL		8		
APR 16	1330	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...DIATOMACEAE				
		L ....DIATOMA			0	
		...FRAGILARIACEAE				
		L ....FRAGILARIA			0	
		L ....SYNEDRA			0	
		...GOMPHONEMATACEAE				
		L ....GOMPHONEMA			0	
		...NAVICULACEAE	NAVICULOID			
		L ....NAVICULA			0	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		4	100	
			TOTALS	4	100	
		TOTAL		4		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
JUN 6	1900	CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....KIRCHNERIELLA		41	11	
			TOTALS	41	11	
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....COCCONEIS		14	4	
		...CYMBELLACEAE				
		....CYMBELLA		41	11	
		...FRAGILARIACEAE				
		....SYNEDRA		27	7	
		...GOMPHONEMATACEAE				
		....GOMPHONEMA		27	7	
		...NAVICULACEAE	NAVICULOID			
		D ....NAVICULA		81	22	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		140	37	
			TOTALS	330	88	
		TOTAL		370		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
JUL 29	1700	CHRYSOPHYTA	DIATOMS			SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	CENTRIC			
		..CENTRALES				
		...COSCINODISCACEAE				
		....CYCLOTELLA		15	5	
		L ....MELOSIRA			0	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES		15	5	
		...CYMBELLACEAE				
		....CYMBELLA		45	14	
		...DIATOMACEAE				
		D ....DIATOMA		60	19	
		...FRAGILARIACEAE				
		D ....SYNEDRA		60	19	
		...MERIDIONACEAE				
		L ....MERIDION			0	
		...NAVICULACEAE	NAVICULOID			
		....NEIDIUM		15	5	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		110	33	
			TOTALS	320	100	
		TOTAL		320		
SEP 24	1900	CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...SCENEDESMACEAE				
		....CRUCIGENIA		140	6	
			TOTALS	140	6	
		CHRYSOPHYTA	DIATOMS			
		.BACILLARIOPHYCEAE	CENTRIC			
		..CENTRALES				
		...COSCINODISCACEAE				
		D ....CYCLOTELLA		1.800	71	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....COCCONEIS		24	1	
		...FRAGILARIACEAE				
		....SYNEDRA		72	3	
		...GOMPHONEMATACEAE				
		....GOMPHONEMA		24	1	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		48	2	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		390	15	
			TOTALS	2.400	93	
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....TRACHELOMONAS		24	1	
			TOTALS	24	1	
		TOTAL		2,500		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC 21...	1000	10600	-20.0	.0	4	4	114	--	--	--	--	--
APR 16...	1330	8730	--	.0	3	1	24	--	--	--	--	--
JUN 09...	1900	77200	14.5	7.5	24	144	30000	47	60	84	99	100
JUL 29...	1700	45500	14.0	15.0	87	94	11500	83	89	97	100	--
SEP 24...	1900	31900	--	6.0	8	15	1290	--	--	--	--	--

15348000 FORTYMILE RIVER NEAR STEELE CREEK

LOCATION.--Lat 64°18'33", long 141°24'08", in SE¼SE¼NW¼ sec.16, T.7 S., R.32 E., Hydrologic Unit 19030001, on left bank 300 ft (91 m) downstream from bridge at mile 112.9 (181.7 km) on Taylor Highway, 0.3 mi (0.5 km) downstream from O'Brien Creek, 0.7 mi (1.1 km) southeast of Alaska Department of Highways road camp, and 4.4 mi (7.1 km) northwest of Steele Creek.

DRAINAGE AREA.--5,880 mi² (15,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1910 to October 1912, published as "at Steele Creek" (no winter records), October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,200.00 ft (365.760 m) above mean sea level (Alaska Department of Highways temporary bench mark). Prior to Oct. 16, 1912 at site 6.8 mi (10.9 km) downstream at different datum.

REMARKS.--Records estimated prior to May 4, poor thereafter. Miscellaneous discharge measurements were made in water years 1954-60, 1963-65, and 1969.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft³/s (1,050 m³/s) (estimated) May 19, 1911, gage height not determined, at site then in use; no flow Dec. 11, 1975 to Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1964 reached a stage of 34.5 ft (10.52 m) at previous Taylor Highway bridge and at different datum, from floodmarks, discharge 84,000 ft³/s (2,380 m³/s), from rating curve extended above 43,000 ft³/s (1,220 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,600 ft³/s (697 m³/s) May 3, gage height 81.06 ft (24.707 m), from floodmark; no flow Dec. 11 to Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	16	1.0				0	8000	9600	994	1770	1280
2	1500	13	1.0				0	22000	8250	858	1430	1400
3	1400	10	1.0				0	23000	8520	812	1460	1430
4	1300	9.0	1.0				0	23000	8150	858	1530	1350
5	1200	8.0	1.0				0	22900	6850	802	1870	1270
6	1200	7.0	1.0				0	21000	5900	710	1610	1300
7	1100	6.0	1.0				0	18000	5150	665	1150	1120
8	1000	5.0	1.0				0	12000	4860	635	921	1020
9	1000	4.0	1.0				0	10000	7500	840	894	994
10	900	4.0	1.0				0	9000	8020	1370	790	1000
11	800	3.0	0				0	7000	7500	1340	824	949
12	760	3.0	0				0	6400	6100	1100	942	900
13	700	3.0	0				0	6000	4480	928	1740	870
14	640	3.0	0				0	5600	3310	888	2450	840
15	560	2.0	0				1.0	5400	2630	956	2070	824
16	500	2.0	0				1.0	5200	2200	1060	2000	829
17	400	2.0	0				1.0	5000	1940	1470	2980	812
18	350	2.0	0				1.0	4700	1680	3010	3300	760
19	300	2.0	0				1.0	4580	1490	3230	3130	735
20	230	2.0	0				1.0	4390	1470	3360	2930	715
21	200	2.0	0				1.0	4100	1280	2620	2480	695
22	150	2.0	0				1.0	3700	1200	1960	2130	685
23	120	2.0	0				1.0	4010	2150	1600	1790	690
24	100	1.0	0				1.0	5720	2110	1420	1600	760
25	80	1.0	0				2.0	6360	1660	1690	1490	780
26	60	1.0	0				3.0	5900	1380	2760	1350	785
27	50	1.0	0				6.0	6060	1170	4140	1160	870
28	40	1.0	0				30	12800	1100	4560	1020	858
29	30	1.0	0				100	15500	1050	4030	942	840
30	25	1.0	0		---		1000	14600	970	3000	1050	858
31	20	---	0		---		---	12400	---	2250	1220	---
TOTAL	18215	119.0	10.0	0	0	0	1151.0	314320	119670	55916	52023	28219
MEAN	588	3.97	.32	0	0	0	38.4	10140	3989	1804	1678	941
MAX	1500	16	1.0	0	0	0	1000	23000	9600	4560	3300	1430
MIN	20	1.0	0	0	0	0	0	3700	970	635	790	685
CFSM	.10	0	0	0	0	0	.006	1.72	.68	.31	.29	.16
IN.	.12	.0008	.00006	0	0	0	.007	1.99	.76	.35	.33	.18
AC-FT	36130	236	20	0	0	0	2280	623500	237400	110900	103200	55970

WTR YR 1976 TOTAL 589643.0 MEAN 1611 MAX 23000 MIN 0 CFSM .27 IN 3.73 AC-FT 1170000

NOTE.--No gage-height record Oct. 1 to May 18.

15348000 FORTYMILE RIVER NEAR STEELE CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-57, 1959, and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
APR							
06...	1500	.00	1490	--	.0	--	--
MAY							
19...	1600	4530	90	7.2	7.0	42	4.2

15356000 YUKON RIVER AT EAGLE

LOCATION.--Lat 64°47'22", long 141°11'52", in NW¼ sec.31, T.1 S., R.33 E., Hydrologic Unit 19030002, on left bank at Eagle, 0.1 mi (0.2 km) upstream from Mission Creek, 1.1 mi (1.8 km) downstream from Castalia Creek, and 11 mi (18 km) downstream from the international boundary.

DRAINAGE AREA.--113,500 mi^2 (294,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1911 to December 1913, June 1950 to current year. Monthly discharge only for some periods, published in WSP 1372.

REVISED RECORDS.--WSP 1372: 1911-14. WSP 2136: 1957, 1964 (M).

GAGE.--Nonrecording gage read once or twice daily. Altitude of gage is 850 ft (260 m) from topographic map. See WSP 1936 for history of changes prior to Oct. 1, 1963.

REMARKS.--Records good except those for period of no gage-height record, Oct. 26 to May 10, which are estimated.

AVERAGE DISCHARGE.--28 years, 81,540 ft^3/s (2,309 m^3/s), 9.76 in/yr (248 mm/yr), 59,080,000 acre-ft/yr (72.8 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 545,000 ft^3/s (15,400 m^3/s) June 12, 1964, gage height, 33.85 ft (10.317 m); maximum gage height, 35.94 ft (10.955 m) in May 1962, from floodmarks, backwater from ice; minimum daily discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 281,000 ft^3/s (7,960 m^3/s) July 18, gage height, 22.5 ft (6.86 m); minimum daily, about 20,000 ft^3/s (570 m^3/s) Mar. 26 to Apr. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123000	64000	33000	25000	22500	21500	20000	50000	217000	211000	177000	106000
2	123000	60000	33000	25000	22500	21500	20000	60000	200000	211000	177000	105000
3	123000	57000	33000	24500	22500	21500	20000	75000	190000	211000	177000	104000
4	123000	54000	32000	24500	22500	21500	20500	95000	185000	213000	179000	101000
5	123000	51000	32000	24500	22500	21500	20500	120000	184000	211000	177000	98800
6	125000	48000	31000	24500	22000	21000	20800	170000	189000	206000	169000	97600
7	127000	46000	31000	24000	22000	21000	21000	205000	204000	199000	166000	96400
8	125000	45000	30000	24000	22000	21000	21000	210000	213000	193000	158000	94000
9	122000	43000	30000	24000	22000	21000	21000	205000	213000	189000	154000	91800
10	119000	42000	29500	24000	22000	21000	21000	200000	215000	192000	154000	90700
11	116000	41000	29000	24000	22000	21000	21000	190000	235000	192000	156000	89600
12	111000	40000	28500	24000	22000	21000	21500	181000	249000	192000	148000	88500
13	109000	40000	28000	24000	22000	21000	21500	168000	245000	193000	146000	86300
14	106000	39000	28000	23500	22000	21000	21500	154000	239000	208000	151000	85200
15	105000	38000	27500	23500	22000	21000	22000	144000	222000	224000	151000	85200
16	104000	38000	27500	23500	22000	21000	22000	134000	208000	255000	145000	85200
17	102000	38000	27000	23500	22000	21000	22000	124000	195000	253000	144000	84100
18	102000	37000	27000	23500	22000	21000	22500	126000	192000	281000	146000	84100
19	100000	37000	26500	23000	22000	21000	22500	123000	200000	271000	145000	84100
20	97600	36000	26500	23000	22000	21000	22500	122000	204000	251000	140000	83000
21	95200	36000	26000	23000	21500	20500	23000	122000	209000	222000	134000	83000
22	91800	36000	26000	23000	21500	20500	23000	123000	211000	209000	132000	83000
23	87400	35000	26000	23000	21500	20500	23500	127000	215000	202000	130000	81000
24	86300	35000	26000	23000	21500	20500	24000	136000	218000	199000	129000	80000
25	85200	35000	25500	23000	21500	20500	25000	146000	218000	192000	125000	80000
26	82000	34000	25500	23000	21500	20000	26000	150000	217000	187000	120000	79000
27	79000	34000	25500	23000	21500	20000	27000	158000	215000	182000	118000	79000
28	76000	34000	25500	22500	21500	20000	31000	176000	206000	179000	118000	78000
29	73000	34000	25000	22500	21500	20000	35000	202000	206000	177000	115000	78000
30	70000	33000	25000	22500	---	20000	42000	208000	208000	181000	112000	76200
31	67000	---	25000	22500	---	20000	---	217000	---	182000	109000	---
TOTAL	3178500	1240000	871000	730500	636000	645000	704300	4626000	6322000	6468000	4502000	2637800
MEAN	102500	41330	28100	23560	21930	20810	23480	149200	210700	208600	145200	87930
MAX	127000	64000	33000	25000	22500	21500	42000	217000	249000	281000	179000	106000
MIN	67000	33000	25000	22500	21500	20000	20000	50000	184000	177000	109000	76200
CFSM	.90	.36	.25	.21	.19	.18	.21	1.31	1.86	1.84	1.28	.77
IN.	1.04	.41	.29	.24	.21	.21	.23	1.52	2.07	2.12	1.48	.86
AC-FT	6305000	2460000	1728000	1449000	1262000	1279000	1397000	9176000	12540000	12830000	8930000	5232000

CAL YR 1975 TOTAL 37859500 MEAN 103700 MAX 371000 MIN 20000 CFSM .91 IN 12.41 AC-FT 75090000
WTR YR 1976 TOTAL 32561100 MEAN 88960 MAX 281000 MIN 20000 CFSM .78 IN 10.67 AC-FT 64580000

15365000 YUKON RIVER AT EAGLE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-57, 1962-70, and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
APR							
06...	1300	20700	155	--	.5	--	--
MAY							
20...	1315	120000	150	6.3	8.0	74	60

15389000 PORCUPINE RIVER NEAR FORT YUKON

LOCATION.--Lat 66°59'26", long 143°08'16", Hydrologic Unit 19030002, on right bank 1,000 ft (300 m) upstream from John Herberts Village, and 65 mi (105 km) northeast of Fort Yukon.

DRAINAGE AREA.--29,500 mi² (76,400 km²), approximately.

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (160 m), from topographic map. Prior to Aug. 17, 1968, 1,300 ft (400 m) upstream at same datum.

REMARKS.--Records poor except those for periods of no gage-height record, Oct. 1 to June 30 and Aug. 9 to Sept. 27, which are estimated. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years, 14,510 ft³/s (410.9 m³/s), 6.68 in/yr (170 mm/yr), 10,510,000 acre-ft/yr (13.0 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 299,000 ft³/s (8,470 m³/s) about May 24, 1973, gage height, 33.68 ft (10.266 m), from floodmarks, from rating curve extended above 180,000 ft³/s (5,100 m³/s); minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 173,000 ft³/s (4,900 m³/s) May 13, gage height, 27.26 ft (8.309 m) from floodmarks; minimum daily, 600 ft³/s (17 m³/s) Mar. 26 to Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12000	2900	1500	1000	900	700	600	700	80000	32300	8280	16000
2	11000	2900	1500	1000	900	700	600	700	85000	32600	8000	15000
3	10000	2800	1500	1000	900	700	600	700	90000	29900	7760	14000
4	9500	2700	1500	1000	900	700	600	700	85000	27800	7480	14000
5	9000	2700	1400	1000	900	700	600	700	80000	26800	7200	14000
6	8500	2600	1400	1000	900	700	600	800	75000	25400	7000	15000
7	8000	2500	1400	1000	900	700	600	1000	70000	24300	6480	15000
8	7600	2500	1400	1000	900	700	600	2000	60000	23100	5680	15000
9	7200	2400	1300	1000	900	700	600	10000	50000	22400	5800	14000
10	6800	2400	1300	1000	800	700	600	25000	55000	22400	6400	13000
11	6500	2300	1300	1000	800	700	600	60000	50000	21700	7000	12000
12	6200	2200	1300	1000	800	700	600	120000	45000	19800	8000	12000
13	6000	2200	1300	1000	800	700	600	170000	40000	18100	10000	11000
14	5600	2100	1300	1000	800	700	600	130000	35000	16800	15000	11000
15	5300	2100	1200	1000	800	700	600	100000	30000	15900	25000	11000
16	5100	2100	1200	1000	800	700	600	90000	25000	17000	50000	10000
17	4900	2000	1200	1000	800	700	600	95000	25000	17000	80000	10000
18	4700	2000	1200	1000	800	700	600	100000	20000	15500	60000	10000
19	4500	1900	1200	1000	800	700	600	95000	20000	14500	50000	10000
20	4300	1900	1100	1000	800	700	600	85000	20000	12600	40000	10000
21	4200	1800	1100	1000	800	700	700	70000	30000	11600	35000	9500
22	4100	1800	1100	1000	800	700	700	65000	50000	10800	40000	9500
23	3900	1800	1100	1000	800	700	700	60000	85000	10200	50000	9500
24	3800	1700	1100	1000	800	700	700	65000	70000	9840	60000	9500
25	3700	1700	1100	1000	800	700	700	70000	60000	9600	45000	9000
26	3500	1700	1100	900	800	600	700	80000	50000	9360	35000	9000
27	3400	1600	1100	900	800	600	700	85000	45000	9080	30000	9000
28	3300	1600	1000	900	800	600	700	90000	40000	8920	27000	9320
29	3200	1600	1000	900	800	600	700	80000	35000	8760	23000	9500
30	3100	1600	1000	900	---	600	700	65000	30000	8600	20000	10000
31	3000	---	1000	900	---	600	---	70000	---	8480	18000	---
TOTAL	181900	64100	38200	30400	24100	21100	19000	1887300	1535000	541140	798080	345820
MEAN	5868	2137	1232	981	831	681	633	60880	51170	17460	25740	11530
MAX	12000	2900	1500	1000	900	700	700	170000	90000	32600	80000	16000
MIN	3000	1600	1000	900	800	600	600	700	20000	8480	5680	9000
CFSM	.20	.07	.04	.03	.03	.02	.02	2.06	1.73	.59	.87	.39
IN.	.23	.08	.05	.04	.03	.03	.02	2.38	1.94	.68	1.01	.44
AC-FT	360800	127100	75770	60300	47800	41850	37690	3743000	3045000	1073000	1583000	685900

CAL YR 1975 TOTAL 5480900 MEAN 15020 MAX 192000 MIN 800 CFSM .51 IN 6.91 AC-FT 10870000
WTR YR 1976 TOTAL 5486140 MEAN 14990 MAX 170000 MIN 600 CFSM .51 IN 6.92 AC-FT 10880000

15439800 BOULDER CREEK NEAR CENTRAL

LOCATION.--Lat 65°34'05", long 144°53'13", in NW¼ sec.32, T.9 N., R.14 E., Hydrologic Unit 19030002, on right bank, 2,000 ft (610 m) upstream from bridge at mile 125.4 (201.8 km) on Steese Highway, 0.7 mi (1.1 km) upstream from mouth, and 2.3 mi (3.7 km) west of Central.

DRAINAGE AREA.--31.3 mi² (81.1 km²).

PERIOD OF RECORD.--Annual maximums, water years 1964-66. May 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,075 ft (328 m), from topographic map. Aug. 3, 1963 to May 22, 1966, crest-stage gage at upstream side of bridge 2,000 ft (610 m) downstream at different datum. May 23, 1966 to Sept. 27, 1969, water-stage recorder, on downstream side of bridge, at datum 7.02 ft (2.140 m) higher than previous datum. Sept. 28, 1969 to July 31, 1971, nonrecording gage on downstream side of bridge, datum of prior recording gage.

REMARKS.--Records estimated for period of no gage-height record prior to May 19 and poor thereafter. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 11.3 ft³/s (0.320 m³/s), 4.90 in/yr (125 mm/yr), 8,190 acre-ft/yr (10.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,150 ft³/s (32.6 m³/s) Aug. 13, 1967, gage height, 7.50 ft (2.286 m), site and datum then in use, 9.72 ft (2.963 m), from floodmarks at present site and datum, from rating curve extended above 70 ft³/s (2.0 m³/s) on the basis of slope-area measurement of peak flow; no flow at times during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft³/s (4.19 m³/s) May 30, gage height 6.58 ft (2.006 m), from rating curve extended above 70 ft³/s (2.0 m³/s) on the basis of slope-area measurements at gage heights 7.84 ft (2.390 m) and 9.72 ft (2.963 m); no flow Dec. 1 to Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	.60					0	50	58	5.6	6.0	70
2	5.0	.60					0	60	58	5.3	5.0	67
3	4.0	.50					0	65	64	5.3	15	51
4	4.0	.50					0	68	51	5.6	40	39
5	4.0	.50					0	64	40	4.8	52	29
6	3.0	.40					0	62	34	4.6	30	22
7	3.0	.40					0	60	29	4.3	18	20
8	3.0	.40					0	56	25	4.0	32	17
9	3.0	.40					0	52	51	5.0	32	17
10	3.0	.30					0	50	37	6.0	25	16
11	2.0	.30					0	45	23	5.0	21	15
12	2.0	.30					0	40	19	4.7	52	14
13	2.0	.30					0	35	14	4.4	110	13
14	2.0	.30					0	38	11	4.0	65	12
15	2.0	.30					0	40	10	5.0	40	11
16	2.0	.20					0	42	8.8	5.0	29	10
17	1.0	.20					0	46	12	4.6	34	9.5
18	1.0	.20					0	50	11	4.4	35	9.0
19	1.0	.20					0	62	9.2	4.0	38	8.5
20	1.0	.20					0	62	7.7	4.8	38	8.0
21	1.0	.20					0	62	6.8	5.2	30	7.6
22	1.0	.20					0	62	5.9	5.0	23	7.2
23	1.0	.20					0	68	5.6	4.8	18	6.8
24	1.0	.10					0	64	4.6	5.0	16	6.4
25	1.0	.10					0	46	4.8	80	15	6.1
26	.90	.10					0	37	4.0	55	14	5.8
27	.80	.10					.50	46	4.0	35	12	5.6
28	.80	.10					2.0	65	4.2	15	9.6	5.4
29	.70	.10					8.0	99	4.0	10	9.2	5.2
30	.70	.10			---		30	105	4.4	8.0	19	5.0
31	.70	---			---		---	68	---	7.0	56	---
TOTAL	62.60	8.40	0	0	0	0	40.50	1769	621.0	326.4	938.8	519.1
MEAN	2.02	.28	0	0	0	0	1.35	57.1	20.7	10.5	30.3	17.3
MAX	5.0	.60	0	0	0	0	30	105	64	80	110	70
MIN	.70	.10	0	0	0	0	0	35	4.0	4.0	5.0	5.0
CFSM	.06	.008	0	0	0	0	.04	1.82	.66	.34	.97	.55
IN.	.07	.010	0	0	0	0	.05	2.10	.74	.39	1.12	.62
AC-FT	124	17	0	0	0	0	80	3510	1230	647	1860	1030

CAL YR 1975 TOTAL 2841.20 MEAN 7.78 MAX 111 MIN 0 CFSM .25 IN 3.38 AC-FT 5640
WTR YR 1976 TOTAL 4285.80 MEAN 11.7 MAX 110 MIN 0 CFSM .37 IN 5.09 AC-FT 8500

15457800 HESS CREEK NEAR LIVENGOOD

LOCATION.--Lat 65°39'55", long 149°05'47", in NW¼ sec.30, T.10 N., R.7 W., Hydrologic Unit 19030002, near midspan on downstream side of bridge at mile 22 (35 km) on TAPS haul road, 1.0 mi (1.6 km) downstream from Mastodon Creek, 4.0 mi (6.4 km) upstream from Richardson Creek, and 18.6 mi (29.9 km) northwest of Livengood.

DRAINAGE AREA.--662 mi^2 (1,715 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1970 to current year.

REVISED RECORDS.--WRD Alaska 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level (Alaska Department of Highways temporary bench mark).

REMARKS.--Water-discharge records fair except those for period of no gage-height record, Oct. 9 to May 10, which are estimated.

AVERAGE DISCHARGE.--6 years, 222 ft^3/s (6.287 m^3/s), 4.55 in/yr (116 mm/yr), 160,800 acre-ft/yr (198 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s (283 m^3/s) May 13, 1975, gage height, 66.78 ft (20.355 m); no flow during winter period in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,260 ft^3/s (234 m^3/s) May 5, gage height, 66.19 ft (20.175 m); no flow Feb. 20 to Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	14	1.2	.30	.10		0	200	1550	82	72	34
2	104	13	1.1	.30	.10		0	600	1080	270	59	70
3	98	12	1.1	.30	.10		0	1200	888	242	50	94
4	90	11	1.0	.30	.10		0	2500	725	205	42	122
5	116	10	.90	.30	.10		0	7000	598	402	35	157
6	326	9.0	.90	.20	.10		0	5000	473	770	31	225
7	250	8.0	.80	.20	.10		0	4500	598	624	27	182
8	183	7.3	.80	.20	.10		0	4000	834	364	33	139
9	160	6.6	.80	.20	.10		0	2500	642	242	217	122
10	140	6.0	.70	.20	.10		0	1600	473	175	289	145
11	130	5.5	.70	.20	.10		0	1110	352	151	268	192
12	115	5.0	.60	.20	.10		0	760	274	117	215	212
13	100	4.7	.60	.20	.10		0	1060	215	92	169	171
14	92	4.3	.60	.20	.10		0	1460	169	72	133	135
15	82	4.0	.60	.20	.10		0	2500	133	105	112	117
16	73	3.7	.50	.20	.10		0	2420	114	713	96	102
17	66	3.3	.50	.20	.10		0	1880	99	730	82	93
18	59	3.0	.50	.20	.10		0	1300	117	405	72	85
19	53	2.8	.50	.20	.10		0	1080	124	283	68	79
20	48	2.6	.40	.20	0		0	924	103	215	85	75
21	43	2.4	.40	.20	0		0	840	100	155	73	70
22	39	2.2	.40	.20	0		0	888	93	115	66	68
23	36	2.1	.40	.20	0		0	912	82	89	60	66
24	32	1.9	.40	.20	0		0	1030	71	73	54	65
25	28	1.8	.40	.20	0		0	1390	68	66	49	63
26	25	1.7	.40	.20	0		0	984	83	99	44	62
27	23	1.6	.30	.10	0		2.0	745	89	117	44	61
28	21	1.5	.30	.10	0		8.0	685	110	220	41	59
29	19	1.4	.30	.10	0		25	996	97	185	38	57
30	17	1.3	.30	.10	---		60	1550	86	130	36	55
31	15	---	.30	.10	---		---	2770	---	96	34	---
TOTAL	2704	153.7	18.70	6.20	1.90	0	95.0	56384	10440	7604	2694	3177
MEAN	87.2	5.12	.60	.20	.066	0	3.17	1819	348	245	86.9	106
MAX	326	14	1.2	.30	.10	0	60	7000	1550	770	289	225
MIN	15	1.3	.30	.10	0	0	0	200	68	66	27	34
CFSM	.13	.007	0	0	0	0	.004	2.75	.53	.37	.13	.16
IN.	.15	.009	.001	.0003	.0001	0	.005	3.17	.59	.43	.15	.18
AC-FT	5360	305	37	12	3.8	0	188	111800	20710	15080	5340	6300

CAL YR 1975 TOTAL 118971.40 MEAN 326 MAX 8040 MIN 0 CFSM .49 IN 6.69 AC-FT 236000
WTR YR 1976 TOTAL 83278.50 MEAN 228 MAX 7000 MIN 0 CFSM .34 IN 4.68 AC-FT 165200

15457800 HESS CREEK NEAR LIVENGOOD--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July to September 1971; May to September 1972; May to September 1976.

INSTRUMENTATIONS.--Temperature recorder occasionally operated since July 16, 1971.

REMARKS.--Temperature recorder started May 11. Stream frozen Feb. 20 to Apr. 26.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1972, 1976), 19.5°C Aug. 24, 1976; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 19.5°C Aug. 24; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY						
11...	1230	1090	5.9	2.5	23	46

TEMPERATURE (DEG. C) OF WATER, MAY TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	8.5	6.0	15.0	13.0	18.0	14.5	---	---
2			---	---	10.0	7.5	15.0	13.0	19.0	15.5	---	---
3			---	---	10.5	8.5	14.5	13.5	19.0	17.0	---	---
4			---	---	11.5	9.5	14.0	12.5	19.0	17.0	---	---
5			---	---	13.0	9.5	12.5	11.0	19.0	16.0	---	---
6			---	---	12.5	11.5	12.5	10.0	19.0	16.0	---	---
7			---	---	11.5	10.0	14.0	11.0	19.0	17.0	---	---
8			---	---	11.0	9.0	14.0	12.5	17.0	16.0	---	---
9			---	---	11.0	9.5	15.0	12.5	16.0	13.0	---	---
10			---	---	13.0	10.0	16.0	13.0	14.0	12.0	---	---
11			4.0	3.0	14.0	11.0	18.0	15.0	14.5	12.0	---	---
12			5.0	3.5	14.5	11.0	18.0	15.0	15.0	13.0	---	---
13			5.0	3.5	15.5	12.0	17.5	14.0	16.0	14.0	---	---
14			4.5	3.5	16.0	12.5	16.5	14.5	16.5	14.0	7.5	6.0
15			4.0	3.0	16.0	13.5	16.0	11.0	16.5	14.0	8.0	6.5
16			4.0	3.0	16.5	13.5	13.5	11.0	15.0	13.5	7.5	6.0
17			5.5	3.5	16.0	14.0	14.0	11.5	15.0	13.5	7.5	6.0
18			7.0	4.5	15.5	13.5	14.0	12.5	15.0	12.5	7.5	5.5
19			7.0	5.5	14.0	12.5	15.5	13.0	14.5	12.5	7.0	6.0
20			7.0	5.5	13.5	11.0	17.0	14.0	14.0	12.0	6.5	5.5
21			7.0	6.0	14.0	12.0	17.5	14.0	14.0	11.0	6.0	5.0
22			7.0	5.0	14.0	12.0	18.0	15.0	---	---	---	---
23			7.0	6.0	13.5	12.0	19.0	16.0	---	---	---	---
24			7.0	6.0	13.0	11.5	19.5	16.0	---	---	---	---
25			7.0	5.5	13.5	12.0	19.0	17.0	---	---	---	---
26			9.0	6.0	16.0	11.5	19.0	16.5	---	---	---	---
27			8.5	7.0	16.0	13.5	17.5	15.0	---	---	---	---
28			8.0	7.0	16.0	14.5	17.5	15.0	---	---	---	---
29			8.0	7.0	15.0	13.0	18.5	15.0	---	---	---	---
30			7.5	6.0	15.5	13.0	18.0	17.0	---	---	---	---
31			6.5	5.0	---	---	17.5	14.0	---	---	---	---
MONTH			---	---	16.5	6.0	19.5	10.0	---	---	---	---

15476000 TANANA RIVER NEAR TANACROSS

LOCATION.--Lat 63°23'18", long 143°44'47", in NE¼ sec.31, T.19 N., R.9 E., Hydrologic Unit 19030004, on right bank 0.2 mi (0.3 km) north of Cathedral Rapids, 0.3 mi (0.5 km) downstream from Cathedral Rapids Creek No. 1, 9 mi (14 km) upstream from Robertson River, and 13 mi (21 km) west of Tanacross.

DRAINAGE AREA.--8,550 mi² (22,140 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,489.58 ft (454.024 m) above mean sea level. Prior to June 13, 1959, on left bank at site 120 ft (37 m) upstream at same datum.

REMARKS.--Records poor except those for Oct. 9 to Apr. 29, which are estimated.

AVERAGE DISCHARGE.--23 years, 7,899 ft³/s (223.7 m³/s), 12.55 in/yr (319 mm/yr), 5,723,000 acre-ft/yr (7.06 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,100 ft³/s (1,110 m³/s) June 19, 1962, gage height, 11.65 ft (3.551 m); maximum gage height, 11.70 ft (3.566 m) July 22, 1975; minimum daily discharge, 1,400 ft³/s (40 m³/s) Mar. 1-31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,200 ft³/s (997 m³/s) Aug. 10, gage height, 11.2 ft (3.41 m), from floodmarks; minimum daily, 2,400 ft³/s (68 m³/s) Feb. 1 to Mar. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9000	3900	2800	2500	2400	2400	2500	4000	11200	19000	20000	13200
2	8500	3800	2800	2500	2400	2400	2500	4900	11400	20000	22000	12600
3	8000	3800	2800	2500	2400	2400	2500	6500	11500	20900	23000	11800
4	7600	3700	2800	2500	2400	2400	2500	8020	11800	19900	25000	10700
5	7330	3700	2800	2500	2400	2400	2500	11700	12300	19100	26000	10100
6	7240	3600	2800	2500	2400	2400	2600	14200	12600	18900	25000	9520
7	7100	3600	2700	2500	2400	2400	2600	11600	12900	18600	24000	8890
8	6980	3500	2700	2500	2400	2400	2600	10400	12600	18300	26000	8410
9	6800	3500	2700	2500	2400	2400	2600	9760	12400	19100	30000	7990
10	6600	3400	2700	2500	2400	2400	2600	9430	11200	19700	34000	7690
11	6400	3400	2700	2500	2400	2400	2600	8890	15100	18600	30000	7450
12	6200	3400	2700	2500	2400	2400	2600	8230	17600	19500	26800	7240
13	6000	3300	2700	2500	2400	2400	2600	7810	17600	19300	26400	7100
14	5800	3300	2700	2500	2400	2400	2600	7540	17000	18800	25300	6900
15	5600	3200	2600	2500	2400	2400	2600	7150	17000	18600	23700	6800
16	5400	3200	2600	2500	2400	2400	2600	7000	17000	18500	23900	6800
17	5200	3200	2600	2500	2400	2400	2600	6550	17200	18700	25000	6600
18	5200	3100	2600	2500	2400	2400	2600	6300	17400	18100	25500	6600
19	5000	3100	2600	2500	2400	2400	2700	6200	16800	16500	24600	6600
20	5000	3100	2600	2500	2400	2400	2700	6000	16000	15800	23900	6800
21	4800	3000	2600	2500	2400	2500	2700	6100	15200	16900	22400	7000
22	4800	3000	2600	2500	2400	2500	2800	6150	14800	16600	21000	7200
23	4600	3000	2600	2500	2400	2500	2800	5900	15000	16200	19200	7300
24	4600	3000	2600	2500	2400	2500	2800	5850	15500	17300	18200	7400
25	4400	3000	2600	2500	2400	2500	2900	5850	15000	18400	17700	7300
26	4400	2900	2600	2500	2400	2500	3000	5900	15500	18300	17400	7200
27	4200	2900	2600	2500	2400	2500	3100	5830	16000	19000	17400	7200
28	4200	2900	2600	2500	2400	2500	3300	6150	17000	19000	17100	7100
29	4000	2900	2600	2500	2400	2500	3500	8800	18000	18900	16200	7000
30	4000	2900	2500	2500	---	2500	3600	10800	18500	19000	14800	7000
31	3900	---	2500	2500	---	2500	---	10600	---	18500	13700	---
TOTAL	178850	98300	82400	77500	69600	75500	82200	240110	449100	574000	705200	241490
MEAN	5769	3277	2658	2500	2400	2435	2740	7745	14970	18520	22750	8050
MAX	9000	3900	2800	2500	2400	2500	3600	14200	18500	20900	34000	13200
MIN	3900	2900	2500	2500	2400	2400	2500	4000	11200	15800	13700	6600
CFSM	.67	.38	.31	.29	.28	.28	.32	.91	1.75	2.17	2.66	.94
IN.	.78	.43	.36	.34	.30	.33	.36	1.04	1.95	2.50	3.07	1.05
AC-FT	354700	195000	163400	153700	138100	149800	163000	476300	890800	1139000	1399000	479000

CAL YR 1975 TOTAL 3278980 MEAN 8984 MAX 37100 MIN 2300 CFSM 1.05 IN 14.27 AC-FT 6504000
WTR YR 1976 TOTAL 2874250 MEAN 7853 MAX 34000 MIN 2400 CFSM .92 IN 12.51 AC-FT 5701000

NOTE.--No gage-height record Oct. 9 to April 29 and Aug. 1-10.

15476000 TANANA RIVER NEAR TANACROSS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--water years 1953-69 and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR				
07...	1115	2610	300	.0
MAY				
22...	1230	6230	250	11.0

15476300 BERRY CREEK NEAR DOT LAKE

LOCATION.--Lat 63°41'23", long 144°21'47", in NW¼ sec.13, T.22 N., R.5 E., Hydrologic Unit 19030004, on left bank 100 ft (30 m) upstream from bridge at mile 1,371.4 (2,206.6 km) on Alaska Highway, 1.9 mi (3.1 km) upstream from mouth, and 6.0 mi (9.7 km) east of Dot Lake.

DRAINAGE AREA.--65.1 mi² (168.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1964-71, revised; July 1971 to current year.

REVISED RECORDS.--WSP 2136: 1964-65 (M).

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (430 m), from topographic map. Aug. 14, 1963 to July 27, 1971, crest-stage gage at site 50 ft (15 m) downstream at same datum.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 6 to June 9, which are estimated.

AVERAGE DISCHARGE.--5 years, 48.0 ft³/s (1.359 m³/s), 10.01 in/yr (254 mm/yr), 34,780 acre-ft/yr (42.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,800 ft³/s (79.3 m³/s) July 19, 1964, gage height, 15.25 ft (4.648 m) site then in use, 15.49 ft (4.721 m) present site, from rating curve extended above 580 ft³/s (16 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 17.5 ft (5.33 m) in May 1976, from floodmarks, flow over ice; minimum daily discharge, 0.6 ft³/s (0.02 m³/s) Jan. 21 to Mar. 15, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) June 10, gage height, 13.20 ft (4.023 m), from rating curve extended above 580 ft³/s (16 m³/s) on basis of slope-area measurements at gage heights 14.10 ft (4.298 m) and 15.49 ft (4.721 m); maximum gage height, 17.5 ft (5.33 m) in May, from floodmarks, flow over ice; minimum daily discharge, 11 ft³/s (0.31 m³/s) Dec. 23 to Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	19	13	11	11	11	11	90	76	72	76	59
2	46	18	13	11	11	11	11	120	82	70	80	55
3	49	18	13	11	11	11	11	90	90	68	88	53
4	47	17	13	11	11	11	11	66	110	66	80	52
5	46	17	13	11	11	11	11	60	130	65	75	50
6	43	17	13	11	11	11	11	54	170	64	75	49
7	42	16	13	11	11	11	11	48	240	64	79	48
8	40	16	12	11	11	11	11	46	300	70	72	49
9	38	16	12	11	11	11	11	44	500	122	64	48
10	36	16	12	11	11	11	11	43	790	80	58	47
11	34	15	12	11	11	11	11	42	277	73	57	46
12	32	15	12	11	11	11	11	40	165	70	136	45
13	31	15	12	11	11	11	11	40	134	70	235	45
14	30	15	12	11	11	11	11	40	124	72	130	45
15	29	15	12	11	11	11	11	40	118	79	178	42
16	28	14	12	11	11	11	11	41	107	86	162	41
17	27	14	12	11	11	11	11	42	88	85	113	41
18	26	14	12	11	11	11	12	43	86	73	94	40
19	25	14	12	11	11	11	12	44	85	68	85	40
20	25	14	12	11	11	11	13	46	85	66	97	41
21	24	14	12	11	11	11	13	47	83	64	107	40
22	23	14	12	11	11	11	14	48	88	63	88	39
23	23	14	11	11	11	11	15	50	96	68	78	39
24	22	14	11	11	11	11	15	52	79	90	72	39
25	22	14	11	11	11	11	16	53	79	106	67	39
26	21	13	11	11	11	11	19	55	85	102	61	39
27	21	13	11	11	11	11	21	57	83	91	59	38
28	20	13	11	11	11	11	25	60	78	75	55	39
29	20	13	11	11	11	11	30	64	76	76	52	35
30	19	13	11	11	---	11	40	66	74	85	55	33
31	19	---	11	11	---	11	---	70	---	78	55	---
TOTAL	959	450	370	341	319	341	432	1701	4578	2381	2783	1316
MEAN	30.9	15.0	11.9	11.0	11.0	11.0	14.4	54.9	153	76.8	89.8	43.9
MAX	51	19	13	11	11	11	40	120	790	122	235	59
MIN	19	13	11	11	11	11	11	40	74	63	52	33
CFSM	.47	.23	.18	.17	.17	.17	.22	.84	2.35	1.18	1.38	.67
IN.	.55	.26	.21	.19	.18	.19	.25	.97	2.62	1.36	1.59	.75
AC-FT	1900	893	734	676	633	676	857	3370	9080	4720	5520	2610

CAL YR 1975 TOTAL 24305.0 MEAN 66.6 MAX 841 MIN 2.6 CFSM 1.02 IN 13.89 AC-FT 48210
WTR YR 1976 TOTAL 15971.0 MEAN 43.6 MAX 790 MIN 11 CFSM .67 IN 9.13 AC-FT 31680

15476300 BERRY CREEK NEAR DOT LAKE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1951-53, 1955-56, 1971-72, and 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
OCT						
05...	1130	44	76	7.1	2.0	---
APR						
04...	1530	11	120	--	1.0	---
AUG						
11...	1230	55	--	--	9.5	200

15478040 PHELAN CREEK NEAR PAXSON

LOCATION.--Lat 63°14'27", long 145°28'03", in SW¼ sec.28, T.19 S., R.12 E., Hydrologic Unit 19030004, on left bank approximately 1 mi (2 km) downstream from terminus of Gulkana Glacier, and 14.5 mi (23.3 km) north of Paxson.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

PERIOD OF RECORD.--October 1966 to current year. Prior to October 1968, published as Gulkana Creek near Paxson.

GAGE.--Water-stage recorder. Datum of gage is 3,690.53 ft (1,124.916 m) above mean sea level.

REMARKS.--Records estimated prior to July 12 and poor thereafter. Large fluctuations from ice melt and alternate damming and storage release during melt season. Streamflow augmented by Gulkana Glacier and other glaciers that cover 7.5 mi^2 (19.3 km^2) and 1.1 mi^2 (2.9 km^2), respectively, of the drainage basin. A recording air temperature and precipitation gage at 4,860 ft (1,480 m) altitude, three storage precipitation gages between 3,700 ft (1,130 m) and 6,400 ft (1,940 m) altitude, plus 3 snow and ice balance measurement stakes, are located in the basin. Combined snow, ice and water balances of the basin are published in other reports of the Geological Survey. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 69.2 ft^3/s (1.960 m^3/s), 77.03 in/yr (1,956 mm/yr), 50,140 acre-ft/yr (61.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft^3/s (65.7 m^3/s) Aug. 13, 1967, gage height, 11.51 ft (3.508 m), from rating curve extended above 900 ft^3/s (26 m^3/s); maximum gage height, 14.7 ft (4.48 m) early June 1967, flow over ice; minimum daily discharge, 1.0 ft^3/s (0.03 m^3/s) Jan. 16 to May 7, 1967, Feb. 19 to May 4, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 824 ft^3/s (23.3 m^3/s) July 26, gage height, 9.35 ft (2.850 m); minimum daily, 2.0 ft^3/s (0.06 m^3/s) Dec. 30 to Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	4.0	3.0	2.0	2.0	2.0	2.0	8.0	60	400	575	105
2	60	4.0	3.0	2.0	2.0	2.0	2.0	6.0	100	450	680	76
3	45	3.0	3.0	2.0	2.0	2.0	2.0	4.0	150	400	734	67
4	35	3.0	3.0	2.0	2.0	2.0	2.0	3.0	100	300	620	53
5	25	3.0	3.0	2.0	2.0	2.0	2.0	3.0	80	400	492	47
6	20	3.0	3.0	2.0	2.0	2.0	2.0	3.0	100	500	396	44
7	15	3.0	3.0	2.0	2.0	2.0	2.0	3.0	50	600	620	40
8	10	3.0	3.0	2.0	2.0	2.0	2.0	2.5	30	300	505	39
9	10	3.0	3.0	2.0	2.0	2.0	2.0	2.5	50	400	333	36
10	10	3.0	3.0	2.0	2.0	2.0	2.0	2.5	70	500	360	35
11	10	3.0	3.0	2.0	2.0	2.0	2.0	2.5	90	450	387	33
12	8.0	3.0	3.0	2.0	2.0	2.0	2.0	2.5	80	387	360	32
13	8.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	100	351	378	31
14	8.0	3.0	3.0	2.0	2.0	2.0	2.0	2.5	150	333	360	31
15	6.0	3.0	3.0	2.0	2.0	2.0	2.0	2.5	200	360	342	31
16	6.0	3.0	3.0	2.0	2.0	2.0	2.0	2.5	150	405	369	30
17	6.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	100	620	324	30
18	6.0	3.0	3.0	2.0	2.0	2.0	2.0	4.0	100	605	288	30
19	6.0	3.0	3.0	2.0	2.0	2.0	2.0	4.0	150	560	243	37
20	6.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	200	505	288	44
21	6.0	3.0	3.0	2.0	2.0	2.0	2.0	4.0	230	492	306	47
22	6.0	3.0	3.0	2.0	2.0	2.0	2.0	10	250	560	270	54
23	4.0	3.0	3.0	2.0	2.0	2.0	2.0	30	300	468	234	49
24	4.0	3.0	3.0	2.0	2.0	2.0	2.0	40	300	492	261	43
25	4.0	3.0	3.0	2.0	2.0	2.0	2.0	20	325	575	261	44
26	4.0	3.0	3.0	2.0	2.0	2.0	2.0	15	350	590	261	44
27	4.0	3.0	3.0	2.0	2.0	2.0	2.0	10	400	418	220	40
28	4.0	3.0	3.0	2.0	2.0	2.0	2.0	20	450	360	166	38
29	4.0	3.0	3.0	2.0	2.0	2.0	2.0	15	475	480	170	34
30	4.0	3.0	2.0	2.0	---	2.0	4.0	20	500	492	192	33
31	4.0	---	2.0	2.0	---	2.0	---	30	---	505	156	---
TOTAL	428.0	92.0	91.0	62.0	58.0	62.0	62.0	281.0	5690	14258	11151	1297
MEAN	13.8	3.07	2.94	2.00	2.00	2.00	2.07	9.06	190	460	360	43.2
MAX	80	4.0	3.0	2.0	2.0	2.0	4.0	40	500	620	734	105
MIN	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.5	30	300	156	30
CFSM	1.13	.25	.24	.16	.16	.16	.17	.74	15.6	37.7	29.5	3.54
IN.	1.30	.28	.28	.19	.18	.19	.19	.86	17.35	43.47	34.00	3.95
AC-FT	849	182	180	123	115	123	123	557	11290	28280	22120	2570

CAL YR 1975 TOTAL 21355.0 MEAN 58.5 MAX 342 MIN 2.0 CFSM 4.80 IN 65.11 AC-FT 42360
WTR YR 1976 TOTAL 33532.0 MEAN 91.6 MAX 734 MIN 2.0 CFSM 7.51 IN 102.24 AC-FT 66510

NOTE.--No gage-height record Oct. 7 to July 11.

15481000 TANANA RIVER NEAR HARDING LAKE

LOCATION.--Lat 64°24'04", long 146°56'56", in NE¼ sec.16, T.6 S., R.4 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 2 mi (3 km) southwest of Harding Lake, 6 mi (10 km) upstream from Salcha River, and 38 mi (61 km) southeast of Fairbanks.

DRAINAGE AREA.--17,240 mi² (44,650 km²).

PERIOD OF RECORD.--May 1968 to current year (gage heights only).

REVISED RECORDS.--WRD Alaska 1972: 1971.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 16.74 ft (5.102 m) July 15, 1971, but may have been higher during period of no gage-height record, July 16-18, 1971; minimum gage height not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1967 reached a gage height of 18.1 ft (5.52 m) from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.87 ft (4.532 m) Aug. 4; minimum gage height not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	12.00	12.80	13.90	11.00
2								---	12.10	12.90	14.10	11.00
3								---	12.40	12.90	14.50	10.90
4								---	12.60	12.80	14.60	10.90
5								---	12.90	12.80	14.40	10.80
6								---	13.00	12.50	14.30	10.70
7								---	12.90	12.50	14.40	10.40
8								---	12.90	12.40	14.70	10.10
9								---	12.90	12.70	14.50	10.30
10								---	13.10	13.00	14.00	10.20
11								---	13.40	13.10	13.70	10.10
12								---	13.50	13.00	13.80	10.00
13								9.70	13.30	13.20	14.60	9.80
14								9.60	13.40	13.30	14.50	9.70
15								9.40	13.50	13.20	14.10	9.70
16								9.20	13.60	13.30	13.80	9.60
17								9.00	13.70	13.30	13.60	9.60
18								9.00	13.80	13.30	13.40	9.50
19								9.00	13.40	13.20	13.30	9.50
20								---	---	13.10	13.00	9.50
21								---	---	13.30	13.00	9.50
22								---	---	13.30	13.10	9.50
23								---	---	13.30	13.00	9.50
24								---	---	13.50	12.80	9.40
25								---	---	13.80	12.70	9.40
26								---	---	13.90	12.60	9.40
27								---	---	13.60	12.30	9.40
28								---	12.30	13.40	12.20	9.40
29								---	12.50	13.20	12.00	9.40
30								---	12.60	13.60	11.60	9.30
31								---	---	13.90	11.20	---
MEAN								---	---	13.16	13.47	9.92
MAX								---	---	13.90	14.70	11.00
MIN								---	---	12.40	11.20	9.30

15484000 SALCHA RIVER NEAR SALCHAKET

LOCATION.--Lat 64°28'22", long 146°55'26", in NE¼ sec.22, T.5 S., R.4 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 0.2 mi (0.3 km) upstream from bridge on Richardson Highway, 0.5 mi (0.8 km) east of Aurora Lodge, 2 mi (3 km) upstream from mouth, and 6 mi (10 km) southeast of Salchaket.

DRAINAGE AREA.--2,170 mi² (5,620 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1909 to August 1910, published as "at mouth" (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.85 ft (192.588 m) above mean sea level. Prior to Aug. 10, 1910, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum. Oct. 1, 1948 to Apr. 24, 1953, nonrecording gage, and Apr. 25, 1953 to Oct. 16, 1967, water-stage recorder at site 800 ft (240 m) downstream at same datum.

REMARKS.--Records fair except those for Oct. 18 to June 2, which are estimated.

AVERAGE DISCHARGE.--28 years (water years 1949-76), 1,701 ft³/s (48.17 m³/s), 10.64 in/yr (270 mm/yr), 1,232,000 acre-ft/yr (1.52 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,000 ft³/s (2,750 m³/s) Aug. 14, 1967, gage height, 21.78 ft (6.639 m), present site, from floodmarks, from rating curve extended above 16,000 ft³/s (450 m³/s) on basis of slope-area measurement and slope-conveyance determination of peak flow; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,220 ft³/s (233 m³/s) May 4, gage height, 10.99 ft (3.350 m), no peaks above base of 10,000 ft³/s (280 m³/s); minimum daily, 100 ft³/s (2.8 m³/s) Feb. 6 to Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	480	200	150	150	100	100	5000	3900	693	961	1280
2	1630	460	200	150	150	100	100	6000	3600	720	874	1530
3	1600	450	200	150	150	100	100	7050	3780	719	817	1650
4	1550	430	200	150	150	100	100	8000	4000	692	794	1580
5	1510	420	200	150	150	100	110	7000	3460	672	843	1470
6	1460	410	200	150	100	100	110	6000	2960	662	1040	1390
7	1400	400	200	150	100	100	110	5000	3000	690	1030	1270
8	1360	390	200	150	100	100	110	4300	2660	683	932	1180
9	1290	380	200	150	100	100	110	3800	2240	659	880	1120
10	1160	360	200	150	100	100	120	3500	2140	769	859	1130
11	1090	350	200	150	100	100	120	3300	2120	1140	819	1170
12	1190	340	200	150	100	100	120	3170	2040	1090	808	1140
13	1180	330	200	150	100	100	120	3100	1670	908	861	1090
14	1160	320	200	150	100	100	120	3000	1380	811	1060	1040
15	1100	320	200	150	100	100	130	2900	1220	745	1140	995
16	950	310	200	150	100	100	140	2600	1150	776	1070	965
17	867	300	200	150	100	100	150	2400	1110	987	1050	937
18	850	290	200	150	100	100	160	2300	1070	1330	1330	905
19	820	290	200	150	100	100	170	2200	990	1270	1630	886
20	800	280	200	150	100	100	180	2300	930	1060	1480	866
21	780	270	150	150	100	100	200	2400	890	902	1360	858
22	760	260	150	150	100	100	230	2700	830	807	1240	846
23	740	260	150	150	100	100	270	3000	786	750	1130	835
24	710	250	150	150	100	100	330	3540	765	728	1050	820
25	680	240	150	150	100	100	430	3200	737	757	981	802
26	650	240	150	150	100	100	530	3000	709	886	923	803
27	620	230	150	150	100	100	800	2800	688	1880	880	827
28	590	230	150	150	100	100	1500	3000	702	2200	847	824
29	560	220	150	150	100	100	3000	3500	688	1730	825	807
30	530	210	150	150	---	100	4000	4000	[illegible]	1350	806	815
31	500	---	150	150	---	100	---	5000	---	1090	839	---
TOTAL	31667	9720	5650	4650	3150	3100	13770	119060	52905	30156	31159	31831
MEAN	1022	324	182	150	109	100	459	3841	1764	973	1005	1061
MAX	1630	480	200	150	150	100	4000	8000	4000	2200	1630	1650
MIN	500	210	150	150	100	100	100	2200	688	659	794	802
CFSM	.47	.15	.08	.07	.05	.05	.21	1.77	.81	.45	.46	.49
IN.	.54	.17	.10	.08	.05	.05	.24	2.04	.91	.52	.53	.55
AC-FT	62810	19280	11210	9220	6250	6150	27310	236200	104900	59810	61800	63140

CAL YR 1975 TOTAL 599108 MEAN 1641 MAX 23500 MIN 150 CFSM .76 IN 10.27 AC-FT 1188000
WTR YR 1976 TOTAL 336818 MEAN 920 MAX 8000 MIN 100 CFSM .42 IN 5.77 AC-FT 668100

NOTE.-- No gage-height record Oct. 31 to June 2 except occasional days.

15484000 SALCHA RIVER NEAR SALCHAKET--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.91							---	---	6.95	7.26	7.51
2	7.95							---	---	6.99	7.17	7.68
3	7.92							---	8.94	6.98	7.10	7.76
4	7.89							---	9.05	6.95	7.08	7.72
5	7.85							---	8.78	6.92	7.13	7.65
6	7.81							---	8.53	6.90	7.33	7.59
7	7.77							---	8.55	6.94	7.32	7.51
8	7.73							---	8.38	6.93	7.23	7.44
9	7.69							---	8.15	6.90	7.18	7.40
10	7.59							---	8.11	7.03	7.15	7.41
11	7.53							8.78	8.10	7.42	7.10	7.44
12	7.61							---	8.05	7.37	7.09	7.41
13	7.60							---	7.80	7.20	7.15	7.37
14	7.58							---	7.60	7.10	7.34	7.32
15	7.54							---	7.50	7.02	7.42	7.29
16	7.42							---	7.44	7.05	7.35	7.26
17	7.36							---	7.41	7.27	7.34	7.23
18	7.51							---	7.38	7.55	7.55	7.20
19	7.70							---	7.31	7.51	7.75	7.18
20	7.46							---	7.25	7.34	7.65	7.16
21	7.57							---	7.21	7.20	7.57	7.15
22	7.44							---	7.15	7.09	7.49	7.14
23	7.12							---	7.10	7.02	7.41	7.12
24	7.24							---	7.07	7.00	7.33	7.11
25	7.28							8.92	7.03	7.03	7.27	7.09
26	7.18							---	6.99	7.17	7.22	7.09
27	7.37							---	6.96	7.91	7.18	7.11
28	7.12							---	6.94	8.11	7.14	7.11
29	7.00							---	6.94	7.81	7.11	7.09
30	7.00							---	6.94	7.57	7.09	7.10
31	---							---	---	7.38	7.13	---
MEAN	---							---	---	7.21	7.28	7.32
MAX	---							---	---	8.11	7.75	7.76
MIN	---							---	---	6.90	7.08	7.09

NOTE.--Gage heights result of backwater from ice Oct. 18-30.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-58, 1967-68, 1970-73, and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUN				
01...	1600	3860	80	8.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR							
16...	1110	E100	3	7	94	97	100

E Estimated

15485500 TANANA RIVER AT FAIRBANKS

LOCATION.--Lat 64°47'54", long 147°46'32", in SE¼ sec.28, T.1 S., R.3 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank at south end of Peger Road in Fairbanks, 2.9 mi (4.7 km) southeast of Fairbanks International Airport, and 4.6 mi (7.4 km) upstream from the Chena River.

DRAINAGE AREA.--Undefined. Part of river flows through Salchaket Slough and is ungaged.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1973 to current year.

GAGE.--Nonrecording gage read once daily. Datum of gage is 400.00 ft (121.920 m) above mean sea level. Prior to Sept. 13, 1973, nonrecording gage and Sept. 14, 1973 to Sept. 30, 1975, water-stage recorder at same site and datum.

REMARKS.--Records estimated prior to May 6 and poor thereafter. See table of discharge measurements at miscellaneous sites for summer measurements of flow in Salchaket Slough.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,300 ft³/s (1,930 m³/s) July 22, 1975, gage height, 32.24 ft (9.827 m); minimum daily, 3,100 ft³/s (88 m³/s) Feb. 14 to Mar. 31, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 16, 1967 reached a stage of 34.4 ft (10.49 m), from floodmarks, discharge, about 125,000 ft³/s (3,500 m³/s), contained in reports of the Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 53,000 ft³/s (1,500 m³/s) Aug. 14, minimum daily, 5,000 ft³/s (140 m³/s) Feb. 26 to Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26000	12000	7500	6000	5500	5000	5000	11500	28000	34800	46800	26000
2	25000	12000	7500	6000	5500	5000	5000	12500	26800	35600	45700	25000
3	24000	12000	7500	6000	5500	5000	5000	14000	28000	37200	47800	24000
4	23000	11500	7500	6000	5500	5000	5500	16000	31200	36400	51000	23000
5	22000	11500	7500	6000	5500	5000	5500	25000	32000	36400	49800	22000
6	21000	11000	7500	6000	5500	5000	5500	34000	32800	35600	49600	21000
7	20500	11000	7500	6000	5500	5000	5500	34000	33200	34000	47700	20000
8	20000	11000	7000	6000	5500	5000	5500	34000	33200	34000	50800	19000
9	19500	10500	7000	6000	5500	5000	5500	30000	32800	35600	50000	18500
10	19000	10500	7000	6000	5500	5000	5500	26800	32800	38000	46000	18000
11	18500	10000	7000	6000	5500	5000	6000	25200	33200	38800	46000	17500
12	18000	10000	7000	6000	5500	5000	6000	24400	34000	38000	46400	17000
13	18000	9500	7000	6000	5500	5000	6000	23600	32800	40400	50000	16400
14	17500	9500	7000	6000	5500	5000	6000	23600	32400	40400	53000	16000
15	17000	9500	7000	6000	5500	5000	6000	22000	32800	40400	52000	15600
16	16500	9000	7000	6000	5500	5000	6500	20400	33200	40400	50000	15000
17	16000	9000	7000	6000	5500	5000	6500	18800	34000	40400	48000	14500
18	16000	9000	7000	6000	5500	5000	6500	17200	38800	41200	45000	14500
19	15500	9000	6500	6000	5500	5000	6500	17200	38800	41200	43000	14000
20	15500	8500	6500	6000	5500	5000	6500	17200	35600	40400	41000	13600
21	15000	8500	6500	6000	5500	5000	7000	17200	32400	40400	39000	13800
22	15000	8500	6500	6000	5500	5000	7000	18000	29200	41200	38000	14000
23	14500	8500	6500	6000	5500	5000	7000	18800	28400	41200	37000	14000
24	14500	8500	6500	6000	5500	5000	7500	20400	29200	40400	36000	14000
25	14000	8500	6500	6000	5500	5000	7500	21200	29200	42000	35000	14000
26	14000	8000	6500	5500	5000	5000	8000	19600	30800	45200	33000	13800
27	13500	8000	6500	5500	5000	5000	8500	17200	32400	46000	32000	13600
28	13000	8000	6500	5500	5000	5000	9000	18800	33200	44400	31000	13600
29	13000	8000	6500	5500	5000	5000	9500	18800	33200	42600	29000	13600
30	12500	8000	6500	5500	---	5000	10500	21200	34800	42600	28000	13500
31	12500	---	6500	5500	---	5000	---	26000	---	46200	27000	---
TOTAL	540000	288500	214000	183000	157500	155000	197500	664600	969200	1231400	1324600	508500
MEAN	17420	9617	6903	5903	5431	5000	6583	21440	32310	39720	42730	16950
MAX	26000	12000	7500	6000	5500	5000	10500	34000	38800	46200	53000	26000
MIN	12500	8000	6500	5500	5000	5000	5000	11500	26800	34000	27000	13500
AC-FT	1071000	572200	424500	363000	312400	307400	391700	1318000	1922000	2442000	2627000	1009000

CAL YR 1975 TOTAL 8120900 MEAN 22250 MAX 67300 MIN 5000 AC-FT 16110000
WTR YR 1976 TOTAL 6433800 MEAN 17580 MAX 53000 MIN 5000 AC-FT 12760000

NOTE.-- No gage-height record Oct. 1 to May 5 and Aug. 13 to Sept. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY				
27...	1600	17400	190	8.0

15493000 CHENA RIVER NEAR TWO RIVERS

LOCATION.--Lat 64°53'55", long 146°24'42", in SW¼ sec.19, T.1 N., R.7 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on downstream side of bridge near midspan at mile 37.9 (61.0 km) on the Chena Hot Springs Highway, 20 mi (32 km) east of Two Rivers, and 39 mi (63 km) east of Fairbanks.

DRAINAGE AREA.--941 mi^2 (2,437 km^2).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (Alaska Department of Highways TBM).

REMARKS.--Records poor, except those for Oct. 12 to Apr. 29, which are estimated. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 690 ft^3/s (19.54 m^3/s), 9.96 in/yr (253 mm/yr), 499,900 acre-ft/yr (616 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s (476 m^3/s) May 12, 1975, gage height, 21.05 ft (6.416 m); minimum daily, 20 ft^3/s (0.6 m^3/s) Feb. 6 to Mar. 12, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 13, 1967 reached a stage of 26.6 ft (8.1 m), from floodmarks, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,620 ft^3/s (159 m^3/s) May 2, gage height, 18.16 ft (5.535 m); maximum gage height, 18.54 ft (5.651 m) Apr. 30, backwater from ice; minimum daily discharge, 62 ft^3/s (1.8 m^3/s) Feb. 28 to Apr. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	740	250	160	120	90	62	64	4990	2160	340	335	484
2	720	250	150	120	90	62	64	5330	1700	355	312	520
3	690	240	150	120	88	62	66	5410	1500	360	300	550
4	652	240	150	120	86	62	68	5390	1350	345	300	550
5	633	230	150	120	86	62	68	4500	1130	330	300	550
6	613	230	150	120	84	62	70	3140	991	320	292	544
7	595	220	150	120	84	62	72	2550	902	308	300	532
8	577	220	140	120	82	62	74	2130	800	300	300	496
9	559	210	140	110	82	62	74	1930	752	308	320	472
10	537	210	140	110	80	62	76	1960	727	308	325	460
11	517	200	140	110	80	62	78	1730	696	308	325	460
12	490	200	140	110	78	62	80	1870	652	292	330	454
13	470	200	140	110	78	62	84	1970	587	277	360	448
14	450	190	140	110	76	62	88	1790	536	271	442	442
15	430	190	140	110	76	62	90	1450	500	271	466	430
16	420	190	140	110	74	62	92	1220	474	300	454	424
17	400	180	130	110	74	62	96	1140	455	350	478	424
18	380	180	130	110	72	62	100	1060	438	376	800	424
19	370	180	130	110	70	62	110	1120	417	412	856	424
20	360	180	130	110	68	62	120	1080	395	388	744	424
21	350	170	130	100	68	62	130	1100	372	340	664	424
22	330	170	130	100	66	62	150	1290	351	304	598	424
23	320	170	130	100	66	62	200	1330	338	296	550	424
24	310	170	120	100	66	62	250	1630	323	308	502	418
25	310	170	120	98	64	62	300	1690	308	478	484	418
26	300	160	120	98	64	62	400	1360	306	800	442	418
27	290	160	120	96	64	62	500	1180	303	765	430	406
28	280	160	120	96	62	62	700	1440	288	652	400	400
29	270	160	120	94	62	62	1000	1850	288	526	388	400
30	260	160	120	92	---	62	2950	3880	316	430	376	400
31	260	---	120	92	---	62	---	3070	---	370	388	---
TOTAL	13883	5840	4190	3346	2180	1922	8214	71580	20355	11788	13561	13644
MEAN	448	195	135	108	75.2	62.0	274	2309	679	380	437	455
MAX	740	250	160	120	90	62	2950	5410	2160	800	856	550
MIN	260	160	120	92	62	62	64	1060	288	271	292	400
CFSM	.48	.21	.14	.11	.08	.07	.29	2.45	.72	.40	.46	.48
IN.	.55	.23	.17	.13	.09	.08	.32	2.83	.80	.47	.54	.54
AC-FT	27540	11580	8310	6640	4320	3810	16290	142000	40370	23380	26900	27060

CAL YR 1975 TOTAL 279734 MEAN 766 MAX 14200 MIN 80 CFSM .81 IN 11.06 AC-FT 554900
WTR YR 1976 TOTAL 170503 MEAN 466 MAX 5410 MIN 62 CFSM .50 IN 6.74 AC-FT 338200

NOTE.--No gage-height record Oct. 17 to April 29.

15493000 CHENA RIVER NEAR TWO RIVERS--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---						---	17.84	16.16	14.24	14.23	14.49
2	---						---	18.01	---	14.27	14.18	14.55
3	---						---	18.05	---	14.28	14.15	14.60
4	14.93						---	18.04	15.57	14.25	14.15	14.60
5	14.90						---	17.57	15.39	14.22	14.15	14.60
6	14.88						---	16.79	15.24	14.20	14.13	14.59
7	14.85						---	16.42	15.14	14.17	14.15	14.57
8	14.82						---	16.14	14.99	14.15	14.15	14.51
9	14.80						---	16.00	14.92	14.17	14.20	14.47
10	14.76						---	16.02	14.88	14.17	14.21	14.45
11	14.73						---	15.86	14.83	14.17	14.21	14.45
12	14.72						---	15.96	14.76	14.13	14.22	14.44
13	14.72						---	16.03	14.65	14.09	14.28	14.43
14	14.70						---	15.91	14.57	14.07	14.42	14.42
15	14.68						---	15.64	14.51	14.07	14.46	14.40
16	14.65						---	15.46	14.47	14.15	14.44	14.39
17	---						---	15.39	14.43	14.26	14.48	14.39
18	---						---	15.31	14.41	14.31	15.00	14.39
19	---						---	15.37	14.37	14.37	15.08	14.39
20	---						---	15.33	14.34	14.33	14.92	14.39
21	---						---	15.35	14.30	14.24	14.79	14.39
22	---						---	15.52	14.26	14.16	14.68	---
23	---						---	15.55	14.24	14.14	14.60	14.39
24	---						---	15.78	14.22	14.17	14.52	14.38
25	---						---	15.83	14.19	14.48	14.49	14.38
26	---						---	15.58	14.19	15.00	14.42	14.38
27	---						---	15.43	14.19	14.95	14.40	14.36
28	---						---	15.64	14.16	14.77	14.35	14.35
29	---						---	15.94	14.16	14.56	14.33	14.35
30	---						16.68	17.22	14.19	14.40	14.31	14.35
31	---						---	16.75	---	14.30	14.33	---
MEAN	---						---	16.18	---	14.30	14.40	---
MAX	---						---	18.05	---	15.00	15.08	---
MIN	---						---	15.31	---	14.07	14.13	---

NOTE.--Gage height result of backwater from ice Oct. 12-16.

15493500 CHENA RIVER NEAR NORTH POLE

LOCATION.--Lat 64°47'47", long 147°11'56", in SW¼ sec.29, T.1 S., R.3 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on left bank 5.5 mi (8.8 km) northeast of North Pole, 6 mi (10 km) upstream from Potlatch Creek, 11 mi (18 km) downstream from Mullen Slough, and 15.7 mi (25.3 km) east of Fairbanks.

DRAINAGE AREA.--1,430 mi² (3,704 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 478.08 ft (145.719 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 24 to May 5, which are estimated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s (348 m³/s) May 14, 1975, gage height, 14.18 ft (4.322 m); minimum daily, 50 ft³/s (1.4 m³/s) Mar. 1-20, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1967 was the largest flood since 1905.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,380 ft³/s (152 m³/s) May 4, gage height, 8.48 ft (2.585 m); minimum daily, 62 ft³/s (1.8 m³/s) Feb. 27 to Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	480	210	150	110	62	64	3000	3090	465	602	536
2	1010	470	210	150	110	62	64	4000	2110	485	548	584
3	996	450	200	140	100	62	66	5200	1860	485	518	614
4	980	440	200	140	100	62	66	5200	1740	475	500	626
5	964	430	200	140	100	62	68	4800	1600	460	485	632
6	956	420	190	140	98	62	68	3980	1470	450	465	632
7	924	400	190	140	96	62	70	3260	1370	445	460	620
8	908	390	190	140	94	62	72	2610	1240	430	455	602
9	892	370	180	140	92	62	74	2280	1100	420	460	584
10	852	360	180	140	90	62	76	2280	1020	420	470	578
11	820	350	180	140	88	62	76	2110	964	420	475	578
12	813	340	180	130	86	62	78	2040	908	410	470	572
13	813	330	170	130	84	62	80	2120	820	405	475	554
14	813	320	170	130	82	62	82	2040	778	400	506	554
15	799	310	170	130	80	62	84	1800	722	430	542	542
16	771	300	170	130	78	62	88	1600	674	425	554	536
17	736	300	160	130	78	62	96	1480	644	450	554	530
18	722	290	160	130	76	62	100	1400	620	500	626	530
19	687	280	160	130	74	62	110	1380	596	536	884	530
20	650	270	160	130	72	62	120	1380	572	560	908	530
21	640	260	160	120	70	62	130	1340	554	548	860	530
22	644	260	160	120	70	62	150	1470	530	506	799	530
23	650	250	160	120	68	62	170	1590	518	480	736	518
24	620	250	160	120	66	62	190	1620	500	470	687	518
25	600	240	160	120	64	62	220	1850	495	572	650	518
26	590	230	150	120	64	62	300	1640	480	972	620	512
27	570	230	150	120	62	62	360	1440	470	1170	590	506
28	560	220	150	110	62	62	500	1470	455	1060	566	500
29	540	220	150	110	62	62	700	1970	460	900	548	500
30	520	220	150	110	---	62	1200	2620	460	764	524	500
31	500	---	150	110	---	62	---	3880	---	680	518	---
TOTAL	23550	9680	5330	4010	2376	1922	5522	74850	28820	17193	18055	16596
MEAN	760	323	172	129	81.9	62.0	184	2415	961	555	582	553
MAX	1010	480	210	150	110	62	1200	5200	3090	1170	908	632
MIN	500	220	150	110	62	62	64	1340	455	400	455	500
CFSM	.53	.23	.12	.09	.06	.04	.13	1.69	.67	.39	.41	.39
IN.	.61	.25	.14	.10	.06	.05	.14	1.95	.75	.45	.47	.43
AC-FT	46710	19200	10570	7950	4710	3810	10950	148500	57160	34100	35810	32920

CAL YR 1975 TOTAL 337689 MEAN 925 MAX 12000 MIN 100 CFSM .65 IN 8.78 AC-FT 669800
WTR YR 1976 TOTAL 207904 MEAN 568 MAX 5200 MIN 62 CFSM .40 IN 5.41 AC-FT 412400

15493500 CHENA RIVER NEAR NORTH POLE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1972 to current year.

INSTRUMENTATION.--Temperature recorder since May 5, 1972.

REMARKS.--No temperature record Oct. 24 to May 5 as gage was shut down for winter.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 16°C July 7, 1972, July 11, 12, 1975; minimum, 0.0°C most days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 14.5°C July 8-10, 12, 13, 20, 21, Aug. 1; minimum, 0.0°C most days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER 1975

DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN
1	3.5	2.5	11	1.0	1.0	21	0.0	0.0
2	3.5	3.5	12	1.0	1.0	22	0.0	0.0
3	3.5	3.0	13	1.5	0.5	23	0.0	0.0
4	3.0	3.0	14	1.5	1.0	24	---	---
5	3.0	3.0	15	1.5	1.5	25	---	---
6	3.0	3.0	16	1.5	0.5	26	---	---
7	3.0	3.0	17	0.5	0.5	27	---	---
8	3.0	2.0	18	0.5	0.5	28	---	---
9	2.0	1.5	19	0.5	0.5	29	---	---
10	1.5	1.0	20	0.5	0.0	30	---	---
						31	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	7.5	5.5	13.5	12.0	14.5	13.0	10.0	9.0
2			---	---	8.0	7.5	12.5	11.5	14.0	14.0	9.5	8.5
3			---	---	8.5	8.0	13.0	12.0	14.0	13.5	9.0	8.0
4			---	---	9.0	8.5	13.0	12.0	13.0	12.5	8.5	7.5
5			---	---	9.5	8.5	12.0	11.0	13.5	12.5	7.5	6.5
6			2.5	2.0	9.5	9.5	12.0	10.0	14.0	13.0	6.5	5.5
7			3.0	2.5	9.5	9.0	13.5	12.0	14.0	13.0	6.0	5.5
8			3.0	3.0	9.0	8.5	14.5	13.5	13.0	12.0	7.0	6.0
9			3.5	2.5	9.0	8.5	14.5	13.5	12.5	12.0	7.0	7.0
10			4.0	3.5	10.5	9.0	14.5	13.0	13.0	12.0	7.0	7.0
11			4.5	4.0	11.0	10.5	14.0	13.0	13.5	12.5	7.0	7.0
12			5.0	4.0	12.0	11.0	14.5	13.0	13.5	12.5	7.0	6.5
13			5.0	4.0	12.5	11.5	14.5	13.5	12.5	12.0	6.5	6.5
14			4.0	4.0	13.0	12.0	14.0	13.5	13.0	12.5	7.0	6.5
15			5.0	4.0	13.0	12.0	14.0	13.0	13.0	12.5	7.0	7.0
16			5.0	4.0	13.0	12.5	13.5	12.5	13.0	12.5	7.0	7.0
17			5.5	4.5	13.0	12.0	13.0	12.5	12.5	12.0	6.5	6.0
18			6.0	5.5	12.0	11.0	13.5	12.5	12.0	12.0	6.0	5.5
19			6.5	6.0	11.0	10.5	14.0	13.0	11.5	11.5	5.5	5.5
20			6.5	6.0	12.0	10.0	14.5	13.0	11.5	11.0	5.5	5.5
21			6.0	5.5	13.0	11.5	14.5	13.5	11.0	10.5	6.0	5.5
22			6.5	6.0	12.5	12.0	14.0	13.5	10.5	10.0	6.0	5.5
23			6.5	5.5	12.5	11.5	14.0	13.0	10.5	10.0	5.5	5.0
24			6.5	5.5	11.5	11.0	14.0	13.5	11.5	10.5	5.0	5.0
25			6.5	5.5	11.0	11.0	14.0	13.5	11.5	11.0	5.0	5.0
26			7.5	6.5	12.0	10.5	13.5	12.0	11.5	10.5	5.0	5.0
27			7.5	6.0	14.0	12.0	13.0	12.5	10.5	10.0	5.0	5.0
28			6.0	5.5	14.0	13.0	13.5	13.0	10.0	9.0	5.0	5.0
29			6.0	6.0	13.5	13.0	14.0	13.5	9.5	9.5	5.0	5.0
30			6.0	5.5	13.5	12.5	14.0	14.0	10.0	9.5	5.0	4.5
31			5.5	5.0	---	---	14.0	13.0	10.0	9.5	---	---
MONTH			7.5	2.0	14.0	5.5	14.5	10.0	14.5	9.0	10.0	4.5
YEAR	14.5	0.0										

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS

LOCATION.--Lat 64°53'10", long 147°14'50", in NE¼ sec.25, T.1 N., R.2 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on downstream side of left bridge abutment at mile 11.9 (19.1 km) on Chena Hot Springs Highway, and 14 mi (23 km) northeast of Fairbanks.

DRAINAGE AREA.--372 mi^2 (963 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (150 m), from topographic map.

REMARKS.--Water-discharge records fair except those for period of no gage-height record, Oct. 16 to May 3, which are estimated.

AVERAGE DISCHARGE.--10 years, 223 ft^3/s (6.315 m^3/s), 8.14 in/yr (207 mm/yr), 161,600 acre-ft/yr (199 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s (481 m^3/s) Aug. 13, 1967, gage height, 31.95 ft (9.738 m), from rating curve extended above 3,000 ft^3/s (85 m^3/s) on basis of contracted-opening determination of peak flow; no flow Mar. 11 to Apr. 15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,700 ft^3/s (48 m^3/s) May 4, gage height, 21.0 ft (6.40 m), from graph based on partial stage record; minimum daily, 25 ft^3/s (0.7 m^3/s) Feb. 1 to Apr. 5.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	80	40	30	25	25	25	1100	664	145	139	116
2	229	80	40	30	25	25	25	1300	524	149	122	127
3	218	80	40	30	25	25	25	1500	458	154	110	132
4	216	80	40	30	25	25	25	1610	406	149	111	128
5	206	80	40	30	25	25	25	1240	365	145	114	124
6	200	70	40	28	25	25	27	948	332	142	109	120
7	198	70	40	28	25	25	27	748	302	132	100	120
8	194	70	40	28	25	25	27	663	285	124	108	119
9	175	70	40	28	25	25	27	597	266	120	129	117
10	220	70	40	28	25	25	27	659	254	112	121	116
11	200	60	35	28	25	25	28	530	243	103	108	116
12	186	60	35	28	25	25	29	521	230	96	112	116
13	174	60	35	28	25	25	30	527	212	88	139	114
14	172	60	35	28	25	25	32	509	198	82	151	114
15	163	60	35	28	25	25	34	458	187	84	139	113
16	150	60	35	26	25	25	36	418	178	92	131	112
17	150	60	35	26	25	25	38	399	170	102	139	120
18	140	60	35	26	25	25	40	376	160	124	240	131
19	140	60	35	26	25	25	44	371	158	136	244	131
20	130	60	35	26	25	25	50	352	151	143	223	127
21	130	50	35	26	25	25	55	342	143	127	200	126
22	120	50	35	26	25	25	60	377	136	110	180	122
23	120	50	35	26	25	25	70	376	128	96	169	124
24	110	50	35	26	25	25	90	394	122	92	158	124
25	110	50	35	26	25	25	110	404	122	128	147	122
26	100	50	30	26	25	25	150	367	123	305	137	118
27	98	50	30	26	25	25	250	335	116	315	131	114
28	96	50	30	26	25	25	400	368	114	272	125	114
29	94	50	30	26	25	25	600	515	114	221	119	122
30	92	50	30	26	---	25	900	832	131	181	117	124
31	90	---	30	26	---	25	---	979	---	154	115	---
TOTAL	4857	1850	1105	846	725	775	3306	20115	6992	4423	4387	3623
MEAN	157	61.7	35.6	27.3	25.0	25.0	110	649	233	143	142	121
MAX	236	80	40	30	25	25	900	1610	664	315	244	132
MIN	90	50	30	26	25	25	25	335	114	82	100	112
CFSM	.42	.17	.10	.07	.07	.07	.30	1.74	.63	.38	.38	.33
IN.	.49	.18	.11	.08	.07	.08	.33	2.01	.70	.44	.44	.36
AC-FT	9630	3670	2190	1680	1440	1540	6560	39900	13870	8770	8700	7190

CAL YR 1975 TOTAL 69044 MEAN 189 MAX 2900 MIN 15 CFSM .51 IN 6.90 AC-FT 136900
WTR YR 1976 TOTAL 53004 MEAN 145 MAX 1610 MIN 25 CFSM .39 IN 5.30 AC-FT 105100

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.10							---	14.48	11.42	11.39	11.28
2	12.08							---	13.66	11.44	11.31	11.33
3	12.03							---	13.27	11.47	11.25	11.36
4	12.03							20.45	12.96	11.44	11.25	11.34
5	11.99							18.22	12.71	11.43	11.27	11.32
6	11.97							16.26	12.50	11.41	11.25	11.30
7	11.95							14.99	12.31	11.36	11.20	11.30
8	11.93							14.47	12.20	11.32	11.24	11.30
9	11.80							14.09	12.09	11.30	11.35	11.28
10	12.10							14.45	12.01	11.26	11.31	11.28
11	11.97							13.69	11.94	11.22	11.24	11.28
12	11.87							13.64	11.86	11.18	11.26	11.28
13	11.79							13.68	11.76	11.14	11.39	11.27
14	11.78							13.57	11.69	11.11	11.46	11.27
15	11.72							13.27	11.63	11.12	11.39	11.26
16	---							13.03	11.59	11.16	11.35	11.26
17	---							12.92	11.55	11.21	11.39	11.30
18	---							12.78	11.50	11.32	11.93	11.36
19	---							12.75	11.49	11.38	11.95	11.35
20	---							12.63	11.45	11.42	11.82	11.33
21	---							12.56	11.41	11.33	11.70	11.33
22	---							12.78	11.38	11.25	11.60	11.31
23	---							12.77	11.34	11.18	11.54	11.32
24	---							12.88	11.31	11.16	11.49	11.32
25	---							12.95	11.31	11.34	11.44	11.31
26	---							12.72	11.32	12.33	11.39	11.29
27	---							12.52	11.28	12.39	11.36	11.27
28	---							12.72	11.27	12.12	11.33	11.27
29	---							13.60	11.27	11.81	11.29	11.31
30	---							15.48	11.36	11.60	11.28	11.32
31	---							16.46	---	11.47	11.27	---
MEAN	---							---	11.93	11.42	11.41	11.30
MAX	---							---	14.48	12.39	11.95	11.36
MIN	---							---	11.27	11.11	11.20	11.26

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1971 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1972 to current year.

INSTRUMENTATION.--Water temperature recorder since May 9, 1972.

REMARKS.--No temperature record Oct. 17 to May 3, when recorder was shut down for winter. The river is ice covered from October to May.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 16°C June 30, 1973; minimum, 0.0°C most days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 13.0°C July 11-14, 23; minimum, 0.0°C most days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER 1975

DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN
1	1.5	1.5	11	0.0	0.0	21	---	---
2	1.5	1.5	12	0.0	0.0	22	---	---
3	1.5	1.0	13	0.5	0.0	23	---	---
4	1.5	1.5	14	0.5	0.5	24	---	---
5	1.5	1.5	15	0.5	0.0	25	---	---
6	1.5	1.5	16	0.0	0.0	26	---	---
7	1.5	1.5	17	---	---	27	---	---
8	1.5	1.0	18	---	---	28	---	---
9	1.0	0.0	19	---	---	29	---	---
10	0.0	0.0	20	---	---	30	---	---
						31	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	6.5	4.0	11.0	10.0	12.0	11.0	9.0	8.0
2			---	---	7.0	6.5	10.0	9.5	12.5	11.5	8.0	7.5
3			---	---	7.0	6.5	11.0	10.0	12.5	12.0	7.5	7.0
4			0.0	0.0	7.5	6.5	11.0	10.0	12.0	11.5	7.0	6.5
5			0.5	0.0	8.5	6.5	10.0	9.0	12.0	11.0	6.5	5.0
6			0.5	0.5	8.5	8.0	10.0	8.0	12.0	11.0	5.0	4.0
7			1.0	0.5	8.5	7.5	12.0	10.0	12.0	11.5	5.0	4.0
8			1.0	1.0	8.0	7.0	12.5	11.5	11.5	10.5	6.0	5.0
9			2.0	1.0	8.0	7.5	12.0	11.0	11.5	10.5	6.5	6.0
10			2.5	2.0	10.0	8.0	12.5	10.5	11.5	10.5	6.5	6.0
11			3.0	2.5	10.5	9.5	13.0	11.0	11.5	11.0	6.0	6.0
12			3.0	2.5	10.5	9.5	13.0	11.5	11.5	11.0	6.0	5.5
13			3.5	2.5	10.5	9.5	13.0	12.5	11.0	10.5	5.5	4.5
14			2.5	2.0	11.0	10.0	13.0	11.5	11.0	10.5	6.0	5.0
15			2.5	2.5	11.5	10.5	12.5	11.0	11.0	10.5	6.0	6.0
16			3.0	2.5	11.5	11.0	12.0	11.0	11.0	10.5	6.0	5.5
17			3.5	3.0	11.5	10.5	11.5	10.0	10.5	10.0	5.5	4.5
18			4.0	3.5	10.5	10.0	11.5	10.5	10.5	10.0	4.5	4.5
19			4.5	4.0	10.0	9.0	11.5	11.0	10.0	9.5	4.5	4.5
20			4.5	4.0	10.5	8.5	12.0	11.0	9.5	8.5	5.0	4.5
21			4.0	3.5	11.0	9.5	12.5	11.0	9.0	8.0	5.0	5.0
22			4.5	4.0	11.0	10.5	12.5	11.5	8.5	8.0	5.0	4.5
23			4.5	3.5	11.0	10.0	13.0	11.0	9.0	8.0	4.5	3.5
24			4.0	3.0	10.0	9.5	12.5	11.5	9.5	9.0	3.5	3.0
25			4.5	4.0	9.5	9.0	12.5	11.5	9.5	9.0	3.5	3.5
26			5.5	4.5	10.5	8.5	11.5	11.0	9.0	8.5	3.5	3.5
27			5.5	4.0	12.5	10.5	11.0	10.5	8.5	8.0	3.5	3.0
28			4.0	3.5	12.5	11.5	11.5	10.5	8.5	7.5	3.5	3.0
29			4.5	4.0	12.0	11.0	12.5	11.0	8.5	8.0	4.0	3.5
30			4.0	3.0	11.5	10.5	12.5	12.0	8.5	8.0	3.5	3.0
31			4.0	3.0	---	---	12.0	10.5	9.0	8.0	---	---
MONTH			5.5	0.0	12.5	4.0	13.0	0.0	12.5	7.5	9.0	3.0
YEAR	13.0	0.0										

15514000 CHENA RIVER AT FAIRBANKS

LOCATION.--Lat 64°50'45", long 147°42'04", in NW¼ sec.11, T.1 S., R.1 W., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 800 ft (240 m) upstream from bridge on Steese Highway (U.S. Highway 97) in Fairbanks, 0.3 mi (0.5 km) upstream from Noyes Slough, 11 mi (18 km) upstream from mouth, and 11 mi (18 km) downstream from Chena Slough.

DRAINAGE AREA.--1,980 mi^2 (5,130 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1948 (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder and nonrecording gage used as supplementary gage below stage of 1.30 ft (0.396 m). Datum of gage is 422.92 ft (128.906 m) above mean sea level. See WSP 1936 and 2136 for history of changes prior to Apr. 27, 1968.

REMARKS.--Records fair except those for Oct. 18 to Apr. 20, which are estimated.

AVERAGE DISCHARGE.--28 years (water years 1949-76), 1,461 ft^3/s (41.38 m^3/s), 10.02 in/yr (255 mm/yr), 1,058,000 acre-ft/yr (1.31 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,400 ft^3/s (2,110 m^3/s) Aug. 15, 1967, gage height 18.82 ft (5.736 m), site then in use; minimum not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Outstanding floods in early May 1905 and 1911 reached states of about 17 ft (5.2 m) and 16 ft (4.9 m), present site and datum, probably some backwater from ice, from profile of floodmarks in a report by Corps of Engineers. Flood of late August 1930 reached a stage of 16.8 ft (5.12 m), present site and datum, from information in above report. Flood of May 11-14, 1937 reached a stage of 15.7 ft (4.79 m) present datum, from floodmarks at Cushman Street bridge, 16.5 ft (5.03 m), present site and datum, from above report, backwater from ice. Prior to construction of a dike in 1941, it was possible for floodwaters from the Tanana River in Piledriver Slough to be diverted to the Chena River through Chena Slough. Flood of May 21, 1948, reached a stage of 14.93 ft (4.551 m), present datum, at site then in use at Cushman Street bridge, 15.4 ft (4.69 m), present site and datum, from Corps flood profile, discharge, 24,200 ft^3/s (685 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,400 ft^3/s (210 m^3/s) May 5 (0300 hrs), gage height, 7.26 ft (2.213 m), only peak above base of 6,000 ft^3/s (170 m^3/s); minimum daily, 180 ft^3/s (5.1 m^3/s) Mar. 6 to 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	640	360	290	250	190	190	2790	4150	710	964	742
2	1480	600	360	290	250	190	190	5960	3180	730	900	764
3	1460	580	360	290	240	190	190	7140	2680	736	860	820
4	1430	540	360	290	240	190	190	7290	2470	742	788	852
5	1400	520	350	290	240	190	200	7120	2250	725	764	860
6	1370	500	350	290	230	180	200	5980	2040	710	747	852
7	1330	480	350	290	230	180	200	4600	1840	700	736	836
8	1310	470	350	290	220	180	200	3800	1700	685	725	820
9	1270	460	340	290	220	180	210	3290	1580	675	725	804
10	1180	460	340	290	220	180	210	3090	1470	665	730	788
11	1160	450	340	290	220	180	210	2980	1400	655	725	775
12	1160	450	330	280	210	180	210	2720	1330	650	730	764
13	1170	440	330	280	210	180	220	2760	1270	635	742	752
14	1150	430	330	280	210	180	220	2760	1180	625	780	730
15	1130	430	330	280	210	180	220	2600	1110	610	812	736
16	1070	430	330	280	210	180	220	2310	1040	630	828	736
17	982	420	320	280	200	180	230	2090	996	660	836	730
18	980	420	320	280	200	180	230	1950	956	695	908	730
19	970	420	320	280	200	180	230	1830	916	752	1100	730
20	960	410	320	280	200	180	240	1810	860	788	1320	730
21	950	400	320	280	200	180	250	1780	836	812	1290	725
22	940	400	310	280	200	180	270	1770	820	769	1240	720
23	920	400	310	280	200	180	300	1910	796	725	1170	720
24	900	390	310	270	200	180	350	1980	769	705	1110	710
25	880	390	300	270	200	180	400	2120	752	780	1020	705
26	860	380	300	270	200	180	422	2190	742	964	900	700
27	840	380	300	270	190	180	526	1910	725	1400	860	700
28	800	370	300	260	190	190	675	1770	720	1470	812	700
29	760	370	300	260	190	190	916	2100	725	1350	780	700
30	740	360	300	260	---	190	1440	2660	715	1200	758	695
31	680	---	300	250	---	190	---	4280	---	1070	747	---
TOTAL	33722	13390	10140	8660	6180	5670	9759	99340	42018	25023	27407	22626
MEAN	1088	446	327	279	213	183	325	3205	1401	807	884	754
MAX	1490	640	360	290	250	190	1440	7290	4150	1470	1320	860
MIN	680	360	300	250	190	180	190	1770	715	610	725	695
CFSM	.55	.23	.17	.14	.11	.09	.16	1.62	.71	.41	.45	.38
IN.	.63	.25	.19	.16	.12	.11	.18	1.87	.79	.47	.51	.43
AC-FT	66890	26560	20110	17180	12260	11250	19360	197000	83340	49630	54360	44880

CAL YR 1975 TOTAL 474008 MEAN 1299 MAX 11900 MIN 220 CFSM .66 IN 8.91 AC-FT 940200
WTR YR 1976 TOTAL 303935 MEAN 830 MAX 7290 MIN 180 CFSM .42 IN 5.71 AC-FT 602900

NOTE.--No gage-height record Oct. 18 to April 25.

15514000 CHENA RIVER AT FAIRBANKS--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.01						---	3.33	4.56	.97	1.33	1.03
2	2.00						---	6.10	3.68	1.01	1.25	1.07
3	1.97						---	7.07	3.23	---	1.20	1.15
4	1.95						---	7.18	3.03	1.03	1.11	1.19
5	1.91						---	7.06	2.81	1.00	1.07	---
6	1.87						---	6.12	2.60	.97	1.04	---
7	1.83						---	4.97	2.40	.95	1.02	1.17
8	.00						---	4.25	2.24	.92	---	1.15
9	1.76						---	3.78	2.10	.90	1.00	1.13
10	1.66						---	3.60	1.96	.88	1.01	1.11
11	1.64						---	3.50	1.87	.86	1.00	1.09
12	1.65						---	3.26	1.79	.85	1.01	1.07
13	1.65						---	3.30	1.71	.82	1.03	1.05
14	1.64						---	3.30	1.60	.80	1.10	1.01
15	1.61						---	3.15	1.51	.77	1.14	1.02
16	1.54						---	2.87	1.43	.81	1.16	1.02
17	1.43						---	2.65	1.37	.87	1.17	1.01
18	1.39						---	2.51	1.32	.94	1.26	---
19	1.30						---	2.39	---	1.05	1.50	---
20	---						---	2.37	---	1.11	1.77	1.01
21	---						-.04	2.33	---	1.14	1.74	1.00
22	---						---	2.32	1.15	1.08	1.67	.99
23	---						---	2.47	1.12	1.00	1.59	.99
24	---						---	2.54	1.08	.96	1.51	.97
25	---						---	2.68	1.05	1.10	1.40	---
26	---						.33	2.75	1.03	1.33	1.25	.95
27	---						.59	2.47	1.00	1.87	1.20	.95
28	---						.90	2.32	.99	1.96	1.14	.95
29	---						1.27	2.66	1.00	1.81	1.10	.95
30	---						1.93	3.21	.98	1.62	1.06	.94
31	---						---	4.68	---	1.46	1.04	---
MEAN	---						---	3.65	---	---	---	---
MAX	---						---	7.18	---	---	---	---
MIN	---						---	2.32	---	---	---	---

NOTE.--Gage heights below 1.30 ft. from staff gage. Backwater from ice, Oct. 18, 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-58 and 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	BICARBONATE (HCO3) (MG/L)
MAY 05...	1630	6820	75	3.0	5	28

15514500 WOOD RIVER NEAR FAIRBANKS

LOCATION.--Lat 64°26'06", long 148°12'46", in SE¼ sec.31, T.5 S., R.3 W., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank, 16.8 mi (27.0 km) southeast of mouth, and 32 mi (51 km) southwest of Fairbanks.

DRAINAGE AREA.--855 mi² (2,214 km²).

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 530 ft (162 m), from topographic map.

REMARKS.--Records estimated Oct. 1 to May 26, June 25 to Aug. 4, and Aug. 22 to Sept. 30; poor otherwise. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years, 476 ft³/s (13.48 m³/s), 7.56 in/yr (192 mm/yr), 344,900 acre-ft/yr (425 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,510 ft³/s (156 m³/s) Aug. 13, 1976, gage height, 8.98 ft (2.737 m), from rating curve extended above 3,600 ft³/s (102 m³/s); minimum daily, 50 ft³/s (1.4 m³/s) Dec. 16, 1975 to Apr. 15, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1967 reached a stage of 11.8 ft (3.60 m), from floodmarks, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,510 ft³/s (156 m³/s) Aug. 13, gage height, 8.98 ft (2.737 m), from rating curve extended above 3,600 ft³/s (102 m³/s); minimum daily, 50 ft³/s (1.4 m³/s) Dec. 16 to Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	90	60	50	50	50	50	70	648	820	1400	510
2	540	85	60	50	50	50	50	80	896	780	1500	510
3	500	85	60	50	50	50	50	90	624	760	1300	400
4	480	85	60	50	50	50	50	100	1100	760	1250	380
5	460	80	60	50	50	50	50	95	1550	760	1200	360
6	440	80	55	50	50	50	50	90	1530	760	1150	360
7	400	80	55	50	50	50	50	85	896	760	1170	310
8	350	80	55	50	50	50	50	85	630	780	1230	310
9	280	80	55	50	50	50	50	90	642	800	1000	340
10	240	75	55	50	50	50	50	90	1300	840	888	370
11	230	75	55	50	50	50	50	95	1730	920	784	370
12	220	75	55	50	50	50	50	100	1420	900	1330	350
13	220	75	55	50	50	50	50	110	1100	820	4720	330
14	220	70	55	50	50	50	50	120	1050	800	2900	310
15	210	70	55	50	50	50	50	140	1200	840	2070	320
16	210	70	50	50	50	50	55	160	1230	960	1660	330
17	200	70	50	50	50	50	55	170	1150	1100	1600	340
18	200	70	50	50	50	50	60	170	746	1300	1370	330
19	190	70	50	50	50	50	60	200	570	1200	1200	320
20	170	70	50	50	50	50	65	250	534	1200	1100	320
21	160	65	50	50	50	50	70	300	576	1400	1070	340
22	140	65	50	50	50	50	70	350	660	1600	1100	370
23	130	65	50	50	50	50	70	400	800	1300	920	390
24	120	65	50	50	50	50	75	450	660	1200	1000	400
25	110	60	50	50	50	50	75	500	760	1300	1000	380
26	110	60	50	50	50	50	75	540	840	1500	920	360
27	100	60	50	50	50	50	75	564	920	1900	840	340
28	95	60	50	50	50	50	70	588	900	1700	700	330
29	90	60	50	50	50	50	70	690	880	1500	630	320
30	90	60	50	50	---	50	70	672	840	1400	460	310
31	90	---	50	50	---	50	---	600	---	1400	570	---
TOTAL	7555	2155	1650	1550	1450	1550	1765	8044	28382	34060	40032	10710
MEAN	244	71.8	53.2	50.0	50.0	50.0	58.8	259	946	1099	1291	357
MAX	560	90	60	50	50	50	75	690	1730	1900	4720	510
MIN	90	60	50	50	50	50	50	70	534	760	460	310
CFSM	.29	.08	.06	.06	.06	.06	.07	.30	1.11	1.29	1.51	.42
IN.	.33	.09	.07	.07	.06	.07	.08	.35	1.23	1.48	1.74	.47
AC-FT	14990	4270	3270	3070	2880	3070	3500	15960	56300	67560	79400	21240

CAL YR 1975 TOTAL 237431 MEAN 650 MAX 4510 MIN 50 CFSM .76 IN 10.33 AC-FT 470900
WTR YR 1976 TOTAL 138903 MEAN 380 MAX 4720 MIN 50 CFSM .44 IN 6.04 AC-FT 275500

NOTE.--No gage-height record Oct. 1 to May 17, June 25 to Aug. 4, and Aug. 22 to Sept. 30.

15515500 TANANA RIVER AT NENANA

LOCATION.--Lat 64°33'55", long 149°05'30", in SE¼ sec.14, T.4 S., R.8 W., Hydrologic Unit 19030004, on left bank on east end of Alaska Railroad dock in Nenana, and 0.3 mi (0.5 km) upstream from Nenana River.

DRAINAGE AREA.--25,600 mi² (66,300 km²), approximately.

PERIOD OF RECORD.--May 1962 to current year.

REVISED RECORDS.--WSP 2136: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 338.50 ft (103.175 m) above mean sea level. Prior to Mar. 10, 1965, on right bank 280 ft (85 m) downstream from railroad bridge 0.5 mi (0.8 km) upstream at present datum. Mar. 10, 1965 to Mar. 23, 1968, nonrecording gage on railroad bridge 0.5 mi (0.8 km) upstream at present datum.

REMARKS.--Records estimated for period of no gage-height record prior to May 7, fair thereafter. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186,000 ft³/s (5,270 m³/s) Aug. 18, 1967, gage height, 18.90 ft (5.761 m), site then in use; minimum daily, 4,000 ft³/s (110 m³/s) Mar. 6-20, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1948 reached a stage of 15.9 ft (4.85 m), discharge, about 135,000 ft³/s (3,820 m³/s), contained in reports of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69,000 ft³/s (1,950 m³/s) Aug. 14, gage height, 9.83 ft (2.996 m); minimum daily, 6,200 ft³/s (180 m³/s) Mar. 1-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28000	14000	9200	7400	6400	6200	6400	14000	30000	43800	59600	33100
2	27000	14000	9000	7400	6400	6200	6400	15000	33000	45100	59300	32100
3	26000	14000	9000	7400	6400	6200	6400	17000	33500	45400	61000	30900
4	26000	13000	9000	7400	6400	6200	6400	20000	36200	45500	64500	29600
5	25000	13000	8800	7400	6400	6200	6400	30000	39200	44500	65700	28300
6	24000	13000	8600	7200	6400	6200	6600	37000	40900	43000	64500	26600
7	24000	13000	8600	7200	6400	6200	6800	37000	39300	41500	64600	24600
8	23000	12000	8600	7200	6400	6200	7000	37800	37200	40900	66300	23400
9	23000	12000	8400	7200	6400	6200	7200	36600	36600	41800	67100	22700
10	22000	12000	8400	7200	6400	6200	7400	35000	37700	44100	65600	22600
11	22000	12000	8400	7200	6400	6200	7600	33000	41100	47100	60600	22100
12	21000	12000	8400	7200	6400	6200	7600	30000	43400	47000	57400	21200
13	21000	11000	8400	7200	6400	6200	7800	28000	43300	47500	61900	20400
14	20000	11000	8200	7200	6400	6200	7800	26000	41700	48900	67800	19700
15	20000	11000	8200	7000	6400	6200	8000	25000	41300	50000	67600	19200
16	19000	11000	8200	7000	6400	6200	8000	23000	41800	52000	63000	19200
17	19000	11000	8200	7000	6400	6200	8200	22000	42700	53900	59200	19100
18	19000	11000	8000	7000	6400	6200	8400	21700	43300	53900	56900	18600
19	18000	10000	8000	7000	6400	6200	8600	21700	40900	53300	54700	18200
20	18000	10000	8000	7000	6400	6200	8600	22100	38600	52100	51900	18200
21	18000	10000	8000	6800	6400	6200	8600	22600	37600	51900	49400	18300
22	17000	10000	7800	6800	6400	6200	8800	24000	36900	51500	48500	18500
23	17000	10000	7800	6800	6400	6200	9000	24200	36600	51300	47900	18700
24	17000	10000	7800	6800	6400	6200	9200	24300	36100	51200	46200	18600
25	16000	10000	7800	6800	6400	6200	9400	25000	35700	54000	44800	18300
26	16000	9800	7600	6800	6400	6200	9600	26000	36200	58000	43400	18000
27	16000	9600	7600	6600	6400	6200	10000	26000	37200	60000	41900	17800
28	16000	9600	7600	6600	6400	6200	11000	26000	39800	57700	40100	17800
29	15000	9400	7400	6600	6400	6200	12000	25000	42100	56700	38300	17900
30	15000	9400	7400	6600	---	6200	13000	25000	43100	55100	36800	17500
31	15000	---	7400	6600	---	6200	---	27000	---	57600	34900	---
TOTAL	623000	337800	253800	217600	185600	192200	248200	807000	1163000	1546300	1711400	651200
MEAN	20100	11260	8187	7019	6400	6200	8273	26030	38770	49880	55210	21710
MAX	28000	14000	9200	7400	6400	6200	13000	37800	43400	60000	67800	33100
MIN	15000	9400	7400	6600	6400	6200	6400	14000	30000	40900	34900	17500
CFSM	.79	.44	.32	.27	.25	.24	.32	1.02	1.51	1.95	2.16	.85
IN.	.91	.49	.37	.32	.27	.28	.36	1.17	1.69	2.25	2.49	.95
AC-FT	1236000	670000	503400	431600	368100	381200	492300	1601000	2307000	3067000	3395000	1292000

CAL YR 1975 TOTAL 9366900 MEAN 25660 MAX 85400 MIN 5600 CFSM 1.00 IN 13.61 AC-FT 18580000
WTR YR 1976 TOTAL 7937100 MEAN 21690 MAX 67800 MIN 6200 CFSM .85 IN 11.53 AC-FT 15740000

15515500 TANANA RIVER AT NENANA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	---	6.92	8.79	5.57
2								---	---	7.08	8.76	5.43
3								---	5.72	7.11	8.94	5.27
4								---	6.02	7.12	9.33	5.08
5								---	6.37	7.00	9.47	4.90
6								---	6.55	6.82	9.33	4.65
7								---	6.35	6.63	9.35	4.34
8								6.08	6.09	6.55	9.53	4.12
9								6.21	6.01	6.67	9.62	4.01
10								6.08	6.15	6.95	9.45	3.99
11								---	6.57	7.32	8.90	3.92
12								---	6.86	7.31	8.54	3.76
13								---	6.84	7.38	9.04	3.63
14								---	6.65	7.56	9.70	3.52
15								---	6.60	7.69	9.68	3.42
16								---	6.66	7.93	9.17	3.41
17								---	6.78	8.15	8.74	3.41
18								4.15	6.85	8.15	8.49	3.31
19								4.16	6.55	8.09	8.24	3.22
20								4.23	6.27	7.95	7.92	3.21
21								4.32	6.14	7.93	7.61	3.24
22								4.55	6.05	7.88	7.50	3.29
23								4.58	6.01	7.85	7.42	3.32
24								4.60	5.95	7.84	7.21	3.29
25								---	5.89	---	7.03	3.24
26								---	5.96	---	6.86	3.19
27								---	6.09	---	6.68	3.15
28								---	6.41	8.58	6.45	3.15
29								---	6.70	8.47	6.23	3.17
30								---	6.83	8.29	6.03	3.08
31								---	---	8.57	5.80	---
MEAN								---	---	---	8.25	3.81
MAX								---	---	---	9.70	5.57
MIN								---	---	---	5.80	3.08

15518000 NENANA RIVER NEAR HEALY

LOCATION.--Lat 63°50'43", long 148°56'37", in NW¼ sec.28, T.12 S., R.7 W., Hydrologic Unit 19030004, on left bank 0.5 mi (0.8 km) upstream from Healy Creek, 1.1 mi (1.8 km) southeast of Healy, and 1.2 mi (1.9 km) upstream from railroad bridge.

DRAINAGE AREA.--1,910 mi² (4,950 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,270.22 ft (387.163 m) above mean sea level. Prior to Aug. 11, 1964, water-stage recorder 200 ft (61 m) downstream at same datum. Aug. 12, 1964 to Feb. 21, 1967, water-stage recorder, and Feb. 22, 1967 to Apr. 2, 1970, nonrecording gage 300 ft (91 m) upstream at same datum.

REMARKS.--Records estimated for periods of no gage-height record, Oct. 1 to May 19 and June 10 to Aug. 17, poor otherwise. Some diurnal fluctuation at times each year caused by snowmelt at the source. Release of water from glacier dammed lake on Yanert Glacier about 50 mi (80 km) upstream has caused some peak flows at station. A flood of this nature apparently occurred in early December and peak discharge may have exceeded the maximum daily discharge for the year. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 3,516 ft³/s (99.57 m³/s), 25.00 in/yr (635 mm/yr), 2,547,000 acre-ft/yr (3.14 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,800 ft³/s (1,330 m³/s) July 25, 1967, gage height, 13.40 ft (4.084 m), from floodmarks; minimum daily, 190 ft³/s (5.4 m³/s) Feb. 1 to Apr. 19, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,900 ft³/s (280 m³/s) June 12, 17; minimum daily, 360 ft³/s (10 m³/s) Mar. 1-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	1000	650	500	400	360	400	600	5060	6300	6300	3320
2	3500	1000	650	500	400	360	400	700	6360	6900	6900	3200
3	3300	1000	650	500	400	360	400	700	7440	6300	6600	3040
4	3100	950	600	500	400	360	400	700	8340	5800	6300	2950
5	2900	950	2600	500	400	360	400	800	8220	5400	6000	2660
6	2700	950	600	500	400	360	400	800	7050	5000	5600	2470
7	2600	900	600	500	400	360	400	900	6000	4800	5400	2320
8	2500	900	600	500	400	360	400	1000	5800	5200	5600	2350
9	2300	850	600	500	400	360	400	1500	5500	5600	6000	2800
10	2400	850	600	500	400	360	400	3000	7800	5800	6600	2680
11	2700	850	600	500	400	360	400	5000	9600	6000	5600	2540
12	3000	800	600	500	400	360	400	4500	9900	6300	5400	2420
13	2500	800	600	500	400	360	400	4000	9000	6600	5200	2320
14	2000	800	600	500	400	360	400	4000	8700	7200	5400	2270
15	1800	800	550	500	400	360	400	3500	8100	6300	5600	2400
16	1700	800	550	450	400	360	400	3500	9600	6000	5800	2510
17	1600	750	550	450	400	360	400	3600	9900	6000	6000	2530
18	1600	750	550	450	400	360	450	3700	6900	5800	6090	2420
19	1500	750	550	450	400	360	450	3800	7500	5800	5600	2470
20	1500	750	550	450	400	360	450	4120	6600	6000	5340	2740
21	1600	700	550	450	400	360	450	5160	6600	5800	5280	3070
22	1700	700	550	450	400	360	500	5900	6300	5600	5320	3180
23	1700	700	500	450	400	360	500	6480	6300	5400	5220	3340
24	1500	700	500	450	400	360	500	5640	6000	5200	5200	3190
25	1300	700	500	450	400	360	500	4800	6000	5400	5420	3100
26	1200	700	500	450	400	360	550	4740	6300	6000	5140	3020
27	1200	650	500	450	400	360	550	4500	6300	5800	4620	2920
28	1100	650	500	450	400	360	550	3760	7200	5600	4280	2800
29	1100	650	500	450	400	360	600	3600	6300	5800	3800	2830
30	1100	650	500	450	---	360	600	3800	5800	6000	3500	2540
31	1000	---	500	450	---	360	---	4000	---	6300	3400	---
TOTAL	63400	24000	19450	14700	11600	11160	13450	102800	216470	182000	168510	82400
MEAN	2045	800	627	474	400	360	448	3316	7216	5871	5436	2747
MAX	3700	1000	2600	500	400	360	600	6480	9900	7200	6900	3340
MIN	1000	650	500	450	400	360	400	600	5060	4800	3400	2270
CFSM	1.07	.42	.33	.25	.21	.19	.23	1.74	3.78	3.07	2.85	1.44
IN.	1.23	.47	.38	.29	.23	.22	.26	2.00	4.22	3.54	3.28	1.60
AC-FT	125800	47600	38580	29160	23010	22140	26680	203900	429400	361000	334200	163400

CAL YR 1975 TOTAL 1242480 MEAN 3404 MAX 15600 MIN 500 CFSM 1.78 IN 24.20 AC-FT 2464000
WTR YR 1976 TOTAL 909940 MEAN 2486 MAX 9900 MIN 360 CFSM 1.30 IN 17.72 AC-FT 1805000

15534900 POKER CREEK NEAR CHATANIKA

LOCATION.--Lat 65°09'32", long 147°28'49", in NW¼SE¼ sec.23, T.4 N., R.1 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 0.7 mi (1.1 km) upstream from Caribou Creek, 2.1 mi (3.4 km) upstream from mouth, 3.3 mi (5.3 km) north of Chatanika, and 22.5 mi (36.2 km) north of Fairbanks.

DRAINAGE AREA.--23.1 mi^2 (59.8 km^2).

PERIOD OF RECORD.--September 1971 to current year.

GAGE.-Water-stage recorder. Altitude of gage is 740 ft (230 m), from topographic map.

REMARKS.--Records estimated for period of no gage-height record prior to July 10 and poor thereafter. Several observations of water temperature were made.

AVERAGE DISCHARGE.--5 years, 11.5 ft^3/s (0.326 m^3/s), 6.76 in/yr (172 mm/yr), 8,330 acre-ft/yr (10.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 240 ft^3/s (6.8 m^3/s) May 12, 1975, gage height, 9.3 ft (2.83 m), flow over ice, from runoff comparison with nearby station; maximum gage height, 9.51 ft (2.899 m) May 8, 1972, backwater from ice; minimum daily discharge, 0.4 ft^3/s (0.01 m^3/s) Mar. 15 to Apr. 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 80 ft^3/s (2.3 m^3/s) May 3, flow over ice; minimum daily, 1.0 ft^3/s (0.03 m^3/s) Dec. 1 to Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	3.0	1.0	1.0	1.0	1.0	1.0	30	28	6.0	4.4	2.2
2	8.0	3.0	1.0	1.0	1.0	1.0	1.0	60	24	7.0	5.6	2.5
3	7.0	3.0	1.0	1.0	1.0	1.0	1.0	80	20	9.0	44	2.2
4	7.0	3.0	1.0	1.0	1.0	1.0	1.0	70	18	8.0	21	2.0
5	6.0	3.0	1.0	1.0	1.0	1.0	1.0	60	16	7.5	12	2.0
6	6.0	3.0	1.0	1.0	1.0	1.0	1.0	50	14	7.5	7.9	1.8
7	6.0	3.0	1.0	1.0	1.0	1.0	1.0	40	12	7.0	6.8	1.8
8	6.0	3.0	1.0	1.0	1.0	1.0	1.0	35	11	7.0	12	2.0
9	6.0	3.0	1.0	1.0	1.0	1.0	1.0	30	10	7.0	9.0	1.8
10	6.0	3.0	1.0	1.0	1.0	1.0	1.0	27	9.0	6.8	6.8	1.8
11	6.0	2.0	1.0	1.0	1.0	1.0	1.0	26	8.0	7.9	6.0	1.8
12	6.0	2.0	1.0	1.0	1.0	1.0	1.0	24	7.5	6.8	5.2	1.8
13	6.0	2.0	1.0	1.0	1.0	1.0	1.0	23	7.0	7.3	4.4	1.5
14	5.0	2.0	1.0	1.0	1.0	1.0	1.0	22	6.5	9.0	4.4	1.8
15	5.0	2.0	1.0	1.0	1.0	1.0	1.0	21	6.0	22	3.5	1.5
16	5.0	2.0	1.0	1.0	1.0	1.0	2.0	21	5.5	20	3.5	3.2
17	4.0	2.0	1.0	1.0	1.0	1.0	2.0	20	5.0	9.0	4.0	4.0
18	4.0	2.0	1.0	1.0	1.0	1.0	2.0	20	5.0	17	3.8	3.0
19	4.0	2.0	1.0	1.0	1.0	1.0	2.0	19	4.5	12	3.5	2.8
20	4.0	2.0	1.0	1.0	1.0	1.0	2.0	19	4.5	6.4	3.0	2.5
21	4.0	2.0	1.0	1.0	1.0	1.0	3.0	19	4.5	3.8	2.8	2.5
22	4.0	2.0	1.0	1.0	1.0	1.0	3.0	19	4.0	3.2	2.5	2.5
23	4.0	2.0	1.0	1.0	1.0	1.0	4.0	19	4.0	3.2	2.5	2.5
24	4.0	2.0	1.0	1.0	1.0	1.0	5.0	19	4.0	3.2	2.2	2.2
25	4.0	2.0	1.0	1.0	1.0	1.0	6.0	19	4.0	11	2.0	2.2
26	4.0	2.0	1.0	1.0	1.0	1.0	7.0	19	4.0	21	2.0	2.0
27	4.0	2.0	1.0	1.0	1.0	1.0	10	20	4.0	22	1.8	2.0
28	4.0	2.0	1.0	1.0	1.0	1.0	12	21	4.0	14	1.8	4.6
29	4.0	2.0	1.0	1.0	1.0	1.0	17	25	4.0	9.0	1.8	15
30	3.0	2.0	1.0	1.0	---	1.0	23	40	5.0	6.4	1.8	12
31	3.0	---	1.0	1.0	---	1.0	---	35	---	5.6	1.8	---
TOTAL	157.0	70.0	31.0	31.0	29.0	31.0	115.0	952	263.0	292.6	193.8	91.5
MEAN	5.06	2.33	1.00	1.00	1.00	1.00	3.83	30.7	8.77	9.44	6.25	3.05
MAX	8.0	3.0	1.0	1.0	1.0	1.0	23	80	28	22	44	15
MIN	3.0	2.0	1.0	1.0	1.0	1.0	1.0	19	4.0	3.2	1.8	1.5
CFSM	.22	.10	.04	.04	.04	.04	.17	1.33	.38	.41	.27	.13
IN.	.25	.11	.05	.05	.05	.05	.19	1.53	.42	.47	.31	.15
AC-FT	311	139	61	61	58	61	228	1890	522	580	384	181

CAL YR 1975 TOTAL 4000.60 MEAN 11.0 MAX 200 MIN .40 CFSM .48 IN 6.44 AC-FT 7940
WTR YR 1976 TOTAL 2256.90 MEAN 6.17 MAX 80 MIN 1.0 CFSM .27 IN 3.63 AC-FT 4480

15535000 CARIBOU CREEK NEAR CHATANIKA

LOCATION.--Lat 65°09'00", long 147°33'05", in NW¼NE¼ sec.28, T.4 N., R.1 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on left bank 2.0 mi (3.2 km) upstream from mouth, 3.5 mi (5.6 km) northwest of Chatanika, and 21.6 mi (34.8 km) north of Fairbanks.

DRAINAGE AREA.--9.19 mi^2 (23.8 km^2).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 870 ft (270 m), from topographic map.

REMARKS.--Records estimated. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--7 years, 4.93 ft^3/s (0.140 m^3/s), 7.29 in/yr (185 mm/yr), 3,570 acre-ft/yr (4.40 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117 ft^3/s (3.31 m^3/s) May 12, 1975, gage height, 5.47 ft (1.667 m), flow over ice; no flow Dec. 11, 1975 to Apr. 4, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 40 ft^3/s (1.1 m^3/s) May 3, flow over ice; no flow Dec. 11 to Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	1.0	.20				0	13	11	1.6	2.0	.90
2	3.0	1.0	.20				0	20	9.0	1.6	2.5	1.0
3	3.0	1.0	.20				0	40	8.0	2.0	7.0	.90
4	3.0	1.0	.20				0	30	7.0	2.0	2.5	.80
5	3.0	1.0	.20				.20	27	6.0	2.0	2.5	.80
6	2.0	.80	.20				.20	23	5.0	2.0	2.5	.70
7	2.0	.80	.20				.20	20	5.0	2.0	2.8	.70
8	2.0	.80	.20				.20	17	4.0	2.0	3.3	.70
9	2.0	.80	.20				.20	15	4.0	2.0	3.3	.70
10	2.0	.80	.20				.20	13	4.0	2.0	3.0	.70
11	2.0	.60	0				.20	12	3.0	2.0	2.9	.70
12	2.0	.60	0				.20	11	3.0	2.0	2.9	.70
13	2.0	.60	0				.20	10	3.0	3.0	2.9	.70
14	2.0	.60	0				.20	10	3.0	4.0	2.8	.70
15	2.0	.60	0				.20	9.0	2.0	4.0	2.0	.70
16	2.0	.60	0				.40	9.0	2.0	4.0	2.0	1.0
17	2.0	.40	0				.40	8.0	2.0	3.0	1.8	1.6
18	2.0	.40	0				.50	8.0	2.0	3.0	1.4	1.3
19	2.0	.40	0				.60	8.0	2.0	3.0	1.4	1.1
20	2.0	.40	0				.80	8.0	1.6	2.0	1.2	1.0
21	2.0	.40	0				.90	8.0	1.6	1.5	1.0	1.0
22	2.0	.40	0				1.1	8.0	1.6	1.3	1.0	1.0
23	1.0	.40	0				1.3	8.0	1.6	1.3	.90	.90
24	1.0	.40	0				1.7	8.0	1.6	1.5	.90	.90
25	1.0	.40	0				2.0	8.0	1.6	3.0	.80	.80
26	1.0	.20	0				3.0	8.0	1.6	4.0	.70	.80
27	1.0	.20	0				4.0	9.0	1.6	5.0	.70	1.5
28	1.0	.20	0				5.0	9.0	1.6	4.0	.70	3.0
29	1.0	.20	0				6.0	10	1.6	4.0	.70	5.0
30	1.0	.20	0		---		9.0	16	1.6	3.0	.80	3.4
31	1.0	---	0		---		---	13	---	2.5	.90	---
TOTAL	58.0	17.20	2.00	0	0	0	38.90	416.0	102.6	80.3	61.80	35.70
MEAN	1.87	.57	.065	0	0	0	1.30	13.4	3.42	2.59	1.99	1.19
MAX	3.0	1.0	.20	0	0	0	9.0	40	11	5.0	7.0	5.0
MIN	1.0	.20	0	0	0	0	0	8.0	1.6	1.3	.70	.70
CFSM	.20	.06	.007	0	0	0	.14	1.46	.37	.28	.22	.13
IN.	.23	.07	.008	0	0	0	.16	1.68	.42	.33	.25	.14
AC-FT	115	34	4.0	0	0	0	77	825	204	159	123	71

CAL YR 1975 TOTAL 1400.90 MEAN 3.84 MAX 100 MIN 0 CFSM .42 IN 5.67 AC-FT 2780
WTR YR 1976 TOTAL 812.50 MEAN 2.22 MAX 40 MIN 0 CFSM .24 IN 3.29 AC-FT 1610

NOTE.--No gage-height record except for occasional days.

15564800 YUKON RIVER AT RUBY

LOCATION.--Lat 64°44'28", long 155°29'22", Hydrologic Unit 19030003, on left bank at Ruby, 300 ft (91 m) downstream from Ruby Creek, 1.5 mi (2.4 km) downstream from Melozitna River, and 2.5 mi (4.0 km) upstream from Ruby Slough.

DRAINAGE AREA.--259,000 mi^2 (671,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 150 ft (46 m), from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 11 to May 23, and Aug. 29 to Sept. 30, which are estimated.

AVERAGE DISCHARGE.--20 years, 168,000 ft^3/s (4,775 m^3/s), 8.84 in/yr (225 mm/yr), 122,200,000 acre-ft/yr (151 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 970,000 ft^3/s (27,500 m^3/s) June 20, 1964, gage height, 35.4 ft (10.79 m); maximum gage height, 38.5 ft (11.73 m) May 20, 1971, from floodmarks, ice jam; minimum daily discharge, 17,000 ft^3/s (480 m^3/s) Mar. 1 to Apr. 15, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 418,000 ft^3/s (11,800 m^3/s) June 9, gage height, 22.77 ft (6.940 m), from floodmarks; minimum daily, 24,000 ft^3/s (680 m^3/s) Mar. 21 to Apr. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252000	95000	50000	36000	32000	28000	24000	70000	332000	332000	306000	260000
2	248000	90000	50000	36000	32000	28000	24000	90000	341000	327000	301000	260000
3	242000	85000	50000	36000	32000	28000	24000	120000	350000	319000	298000	260000
4	235000	80000	50000	36000	32000	28000	24000	150000	362000	314000	296000	250000
5	228000	75000	50000	36000	32000	28000	24000	200000	374000	314000	296000	250000
6	222000	73000	50000	36000	32000	28000	24000	250000	380000	319000	296000	240000
7	218000	70000	48000	36000	32000	28000	24000	270000	392000	316000	296000	240000
8	215000	68000	47000	36000	32000	28000	24000	300000	406000	316000	298000	230000
9	212000	66000	46000	36000	32000	28000	24000	310000	409000	316000	296000	230000
10	208000	64000	46000	36000	32000	26000	24000	320000	406000	314000	296000	220000
11	200000	63000	45000	36000	32000	26000	24000	310000	399000	311000	301000	220000
12	190000	62000	45000	36000	32000	26000	24000	290000	389000	306000	301000	210000
13	185000	61000	44000	36000	30000	26000	26000	270000	386000	301000	296000	210000
14	180000	60000	43000	36000	30000	26000	26000	260000	383000	298000	288000	200000
15	175000	60000	42000	36000	30000	26000	26000	250000	380000	296000	283000	200000
16	170000	59000	42000	34000	30000	26000	26000	250000	374000	296000	278000	190000
17	165000	58000	41000	34000	30000	26000	26000	240000	371000	298000	280000	190000
18	160000	57000	40000	34000	30000	26000	26000	240000	368000	301000	280000	180000
19	155000	57000	40000	34000	30000	26000	28000	250000	371000	303000	278000	180000
20	150000	56000	40000	34000	30000	26000	28000	250000	365000	309000	275000	180000
21	147000	56000	40000	34000	30000	24000	30000	260000	347000	322000	278000	170000
22	143000	55000	40000	34000	30000	24000	32000	260000	335000	335000	293000	170000
23	140000	55000	38000	34000	30000	24000	33000	270000	327000	347000	301000	170000
24	137000	54000	38000	34000	30000	24000	35000	280000	329000	353000	298000	170000
25	132000	54000	38000	34000	30000	24000	37000	290000	329000	347000	290000	160000
26	127000	52000	38000	34000	30000	24000	40000	293000	327000	338000	283000	160000
27	122000	52000	38000	34000	28000	24000	43000	298000	329000	329000	275000	160000
28	116000	52000	38000	34000	28000	24000	47000	298000	335000	329000	270000	150000
29	110000	52000	38000	34000	28000	24000	53000	301000	341000	322000	270000	150000
30	105000	51000	38000	32000	---	24000	60000	309000	338000	319000	270000	150000
31	100000	---	38000	32000	---	24000	---	319000	---	314000	270000	---
TOTAL	5389000	1892000	1331000	1080000	888000	802000	910000	7868000	10875000	9861000	8937000	6010000
MEAN	173800	63070	42940	34840	30620	25870	30330	253800	362500	318100	288300	200300
MAX	252000	95000	50000	36000	32000	28000	60000	320000	409000	353000	306000	260000
MIN	100000	51000	38000	32000	28000	24000	24000	70000	327000	296000	270000	150000
CFSM	.67	.24	.17	.13	.12	.10	.12	.98	1.40	1.23	1.11	.77
IN.	.77	.27	.19	.16	.13	.12	.13	1.13	1.56	1.42	1.28	.86
AC-FT	10690000	3753000	2640000	2142000	1761000	1591000	1805000	15610000	21570000	19560000	17730000	11920000

CAL YR 1975 TOTAL 63443000 MEAN 173800 MAX 603000 MIN 25000 CFSM .67 IN 9.11 AC-FT 125800000
WTR YR 1976 TOTAL 55843000 MEAN 152600 MAX 409000 MIN 24000 CFSM .59 IN 8.02 AC-FT 110800000

15564800 YUKON RIVER AT RUBY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 and 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR				
09...	1800	23700	245	.0

15564875 MIDDLE FORK KOYUKUK RIVER NEAR WISEMAN

LOCATION (revised).--Lat 67°26'18", long 150°04'30", in SE¼ sec.7, T.30 N., R.11 W., Hydrologic Unit 19030005, near midspan on downstream side of bridge on TAPS haul road, 1.4 mi (2.3 km) upstream from Minnie Creek, 1.9 mi (3.1 km) downstream from Hammond River, 2.1 mi (3.4 km) north of Wiseman and 2.5 mi (4.0 km) upstream from Wiseman Creek. Prior to July 23, 1976 at site 0.3 mi (0.5 km) upstream on left bank.

DRAINAGE AREA.--1,426 mi² (3,693 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,189.6 ft (362.59 m) above mean sea level (Alyeska Pipeline Service Company, temporary bench mark). Prior to July 23, 1976 at site 0.3 mi (0.5 km) upstream at same datum.

REMARKS.--Water-discharge records estimated for period of no gage-height record prior to May 20 and poor thereafter. Discharges of less than 20 ft³/s (0.6 m³/s) may be discontinuous as the flow probably varies significantly along the main stem of the river during the winter due to the formation of aufeis in the vicinity of springs. Flow may cease at other points.

AVERAGE DISCHARGE.--6 years, 694 ft³/s (19.65 m³/s), 6.61 in/yr (168 mm/yr), 502,800 acre-ft/yr (620 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,100 ft³/s (484 m³/s) Aug. 21, 1973, gage height, 13.50 ft (4.115 m) at site then in use, from floodmarks, from rating curve extended above 7,000 ft³/s (200 m³/s) on the basis of slope-area measurements at gage heights 13.25 ft (4.039 m) and 15.2 ft (4.63 m); no flow Nov. 16, 1974 to Apr. 24, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1968 reached a stage of 13.25 ft (4.039 m) at prior site, from floodmarks, discharge, 16,300 ft³/s (462 m³/s). The maximum evident flood reached a stage of 15.2 ft (4.63 m) at prior site, 11.1 ft (3.38 m), present site, from floodmarks, discharge, about 33,000 ft³/s (930 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,700 ft³/s (388 m³/s) July 30, gage height, 9.88 ft (3.011 m) from rating curve extended above 6,000 ft³/s (170 m³/s); minimum daily, 0.9 ft³/s (0.03 m³/s) Dec. 21 to Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	620	100	1.7	.90	.90	.90	1.0	12	1540	2580	2060	651
2	620	90	1.6	.90	.90	.90	1.0	20	3340	2320	1520	716
3	600	80	1.5	.90	.90	.90	1.0	30	5730	2020	1250	887
4	560	60	1.5	.90	.90	.90	1.1	100	6280	1850	1100	1550
5	520	40	1.4	.90	.90	.90	1.1	500	7190	2120	980	1470
6	480	35	1.4	.90	.90	.90	1.1	800	7330	2180	878	1270
7	450	30	1.4	.90	.90	.90	1.1	1200	11700	1960	812	1150
8	420	25	1.3	.90	.90	.90	1.1	800	6490	1800	1000	1090
9	380	20	1.3	.90	.90	.90	1.1	650	5010	1700	1670	1140
10	350	15	1.2	.90	.90	.90	1.1	600	5940	1620	1520	1120
11	330	13	1.2	.90	.90	.90	1.1	650	6070	1660	1420	1080
12	310	11	1.2	.90	.90	.90	1.1	750	5880	1790	1230	1010
13	290	10	1.1	.90	.90	.90	1.1	850	5520	1800	1220	923
14	270	8.0	1.1	.90	.90	.90	1.1	900	5580	1910	1400	869
15	260	7.0	1.1	.90	.90	.90	1.1	1000	5670	2030	1250	828
16	250	6.0	1.0	.90	.90	.90	1.2	1150	5520	2020	1170	812
17	250	5.0	1.0	.90	.90	.90	1.3	1400	5250	2060	1120	788
18	240	5.0	1.0	.90	.90	.90	1.4	1800	5790	2160	1140	748
19	240	4.0	1.0	.90	.90	.90	1.5	2300	6240	2120	1080	756
20	240	4.0	1.0	.90	.90	.90	1.6	2600	5970	1880	1030	1010
21	240	4.0	.90	.90	.90	.90	1.7	2900	5520	1620	970	1200
22	230	3.0	.90	.90	.90	.90	1.9	3000	4830	1420	887	1400
23	230	3.0	.90	.90	.90	.90	2.0	3220	4020	1400	836	1700
24	230	3.0	.90	.90	.90	.90	2.2	5970	3420	1450	772	2000
25	220	2.0	.90	.90	.90	.90	2.4	8820	3020	1500	724	1700
26	210	2.0	.90	.90	.90	.90	2.7	3700	3080	1460	686	1500
27	190	2.0	.90	.90	.90	.90	3.0	3320	3060	1400	651	1400
28	180	2.0	.90	.90	.90	.90	4.0	2480	2960	1260	609	1300
29	160	1.9	.90	.90	.90	1.0	5.0	1560	3140	1280	602	1200
30	140	1.8	.90	.90	---	1.0	10	1160	2840	6440	581	1100
31	120	---	.90	.90	---	1.0	---	1160	---	4000	609	---
TOTAL	9830	592.7	34.90	27.90	26.10	28.20	58.1	55402	153930	62810	32777	34368
MEAN	317	19.8	1.13	.90	.90	.91	1.94	1787	5131	2026	1057	1146
MAX	620	100	1.7	.90	.90	1.0	10	8820	11700	6440	2060	2000
MIN	120	1.8	.90	.90	.90	.90	1.0	12	1540	1260	581	651
CFSM	.22	.01	0	0	0	0	.001	1.25	3.60	1.42	.74	.80
IN.	.26	.02	.0009	.0007	.0007	.0007	.002	1.45	4.02	1.64	.86	.90
AC-FT	19500	1180	69	55	52	56	115	109900	305300	124600	65010	68170

CAL YR 1975 TOTAL 287331.60 MEAN 787 MAX 8100 MIN 0 CFSM .55 IN 7.50 AC-FT 569900
WTR YR 1976 TOTAL 349884.90 MEAN 956 MAX 11700 MIN .90 CFSM .67 IN 9.13 AC-FT 694000

15564875 MIDDLE FORK KOYUKUK RIVER NEAR WISEMAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to August 1971, May to August 1972, July to September 1976.

INSTRUMENTATION.--Temperature recorder occasionally operated since June 13, 1971.

REMARKS.--Temperature recorder started July 26. River is ice covered from October to May.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 19.0°C July 7, 1972; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 15.5°C Aug. 6; minimum, 0.0°C during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUN							
10...	1300	5770	200	8.0	8.0	92	1.5

TEMPERATURE (DEG. C) OF WATER, JULY TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1							---	---	14.5	11.0	10.5	8.0
2							---	---	15.0	11.0	9.5	8.0
3							---	---	15.0	11.0	8.5	6.5
4							---	---	14.5	11.0	6.5	3.5
5							---	---	15.0	11.0	3.5	2.0
6							---	---	15.5	11.5	5.5	2.0
7							---	---	14.5	12.0	5.5	4.0
8							---	---	13.5	10.0	5.5	4.0
9							---	---	11.0	9.5	6.5	4.0
10							---	---	12.0	10.0	6.0	5.0
11							---	---	12.5	9.0	---	---
12							---	---	14.0	10.0	---	---
13							---	---	13.0	11.0	---	---
14							---	---	13.0	9.5	---	---
15							---	---	12.5	10.0	---	---
16							---	---	11.5	9.0	---	---
17							---	---	11.0	9.5	---	---
18							---	---	12.0	8.0	---	---
19							---	---	11.0	8.0	---	---
20							---	---	12.0	8.0	---	---
21							---	---	11.0	8.0	---	---
22							---	---	10.0	7.0	---	---
23							---	---	11.5	8.5	---	---
24							---	---	12.0	8.0	---	---
25							---	---	13.0	9.5	---	---
26							---	---	13.0	9.5	---	---
27							12.5	10.0	12.5	8.5	---	---
28							12.5	10.0	11.0	7.5	---	---
29							12.5	10.0	11.0	8.5	---	---
30							12.0	10.0	10.5	7.0	---	---
31							13.5	8.5	11.0	8.0	---	---
MONTH							---	---	15.5	7.0	---	---

15564877 WISEMAN CREEK AT WISEMAN

LOCATION.--Lat 67°24'38", long 150°06'21", in SE¼ sec.24, T.30 N., R.12 W., Hydrologic Unit 19030005, on left abutment of footbridge at mouth, 0.2 mi (0.3 km) from north end of landing strip at Wiseman.

DRAINAGE AREA.--49.2 mi^2 (127.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,100 ft (335 m), from topographic map.

REMARKS.--Water-discharge records estimated for period of no gage-height record prior to June 7 and poor thereafter.

AVERAGE DISCHARGE.--6 years, 24.6 ft^3/s (0.697 m^3/s), 6.79 in/yr (172 mm/yr), 17,820 acre-ft/yr (22.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 686 ft^3/s (19.4 m^3/s) about June 6, 1976, gage height, 5.16 ft (1.573 m), from rating curve extended above 350 ft^3/s (9.9 m^3/s); maximum gage height observed, 6.44 ft (1.963 m) May 9, 1975, backwater from ice; no flow each winter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 686 ft^3/s (19.4 m^3/s) about June 6, gage height, 5.16 ft (1.573 m); maximum gage height observed, 5.35 ft (1.631 m) about May 24, backwater from ice; no flow Nov. 11 to May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	1.0						0	55	45	46	23
2	6.0	1.0						.10	70	33	38	27
3	6.0	1.0						1.0	100	34	32	33
4	6.0	1.0						2.0	150	138	26	40
5	6.0	1.0						5.0	250	94	25	36
6	6.0	.50						8.0	400	54	24	32
7	6.0	.50						11	205	48	23	30
8	6.0	.50						17	162	44	30	28
9	5.0	.50						23	154	46	56	27
10	5.0	.50						29	162	39	60	27
11	5.0	0						37	150	44	56	25
12	4.0	0						45	138	39	46	24
13	4.0	0						50	142	34	42	24
14	4.0	0						54	146	30	40	22
15	3.0	0						56	130	31	36	22
16	3.0	0						58	112	46	33	21
17	3.0	0						60	118	50	33	20
18	3.0	0						64	118	50	31	19
19	2.0	0						66	103	43	28	19
20	2.0	0						70	79	38	26	18
21	2.0	0						80	68	45	25	18
22	2.0	0						90	52	30	23	17
23	2.0	0						130	43	25	23	17
24	2.0	0						200	46	24	22	16
25	2.0	0						100	70	24	22	16
26	2.0	0						60	62	25	21	15
27	2.0	0						45	54	30	21	15
28	2.0	0						40	54	28	20	14
29	2.0	0						40	44	27	21	14
30	2.0	0			---			42	45	97	22	14
31	1.0	---			---		---	45	---	73	22	---
TOTAL	112.0	7.50	0	0	0	0	0	1528.10	3482	1408	973	673
MEAN	3.61	.25	0	0	0	0	0	49.3	116	45.4	31.4	22.4
MAX	6.0	1.0	0	0	0	0	0	200	400	138	60	40
MIN	1.0	0	0	0	0	0	0	0	43	24	20	14
CFSM	.07	.005	0	0	0	0	0	1.00	2.36	.92	.64	.46
IN.	.08	.006	0	0	0	0	0	1.16	2.63	1.06	.74	.51
AC-FT	222	15	0	0	0	0	0	3030	6910	2790	1930	1330

CAL YR 1975 TOTAL 8516.20 MEAN 23.3 MAX 380 MIN 0 CFSM .47 IN 6.44 AC-FT 16890
WTR YR 1976 TOTAL 8183.60 MEAN 22.4 MAX 400 MIN 0 CFSM .46 IN 6.19 AC-FT 16230

15564877 WISEMAN CREEK AT WISEMAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May to September 1973, June to September 1976.

INSTRUMENTATION.--Temperature recorder occasionally operated since May 15, 1973.

REMARKS.--Temperature recorder started June 18. Stream is frozen from November through April.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 16.5°C July 9, 1973; minimum, 0.0°C many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 7.5°C July 2; minimum, 0.0°C during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUN 18...	1000	110	110	7.5	6.0	46	2.3

TEMPERATURE (DEG. C) OF WATER, JUNE TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	7.0	6.0	6.0	1.5	6.0	3.5
2					---	---	7.5	6.0	5.5	2.0	6.0	4.0
3					---	---	7.0	5.5	6.0	3.5	6.0	5.5
4					---	---	6.5	6.0	6.0	2.5	7.0	6.0
5					---	---	6.0	5.0	5.5	2.5	7.0	6.0
6					---	---	7.0	4.5	6.0	2.0	6.5	4.0
7					---	---	6.5	4.5	5.5	4.5	6.5	4.0
8					---	---	7.0	4.5	5.5	5.0	6.0	5.5
9					---	---	6.0	4.0	6.0	4.5	6.0	5.5
10					---	---	7.0	4.0	5.5	4.5	6.0	4.5
11					---	---	5.5	2.5	6.5	2.5	6.0	5.5
12					---	---	6.0	2.0	6.0	2.5	6.0	5.0
13					---	---	5.5	3.0	5.5	4.0	6.0	4.0
14					---	---	5.5	3.0	6.0	3.0	6.0	4.5
15					---	---	5.5	3.5	6.0	4.5	6.0	4.0
16					---	---	5.5	3.0	6.0	4.0	---	---
17					---	---	6.0	3.5	6.0	5.0	---	---
18					6.0	4.5	6.5	3.5	6.5	2.5	---	---
19					6.5	5.5	5.5	4.5	6.0	3.5	---	---
20					6.0	4.5	6.0	3.0	6.0	3.5	---	---
21					6.0	5.0	5.5	2.0	6.5	3.5	---	---
22					6.5	5.0	5.5	3.0	6.5	4.0	---	---
23					6.5	4.5	5.5	1.5	6.0	4.0	---	---
24					6.0	6.0	5.5	3.0	6.0	3.0	---	---
25					6.0	5.5	5.5	3.0	5.5	2.0	---	---
26					6.5	4.5	5.0	4.5	5.0	2.0	---	---
27					6.0	4.5	5.5	4.5	5.5	2.5	---	---
28					6.5	4.5	5.5	4.0	6.0	2.5	---	---
29					6.5	5.0	5.5	4.0	6.0	3.0	---	---
30					6.5	5.5	5.5	4.5	6.0	4.0	---	---
31					---	---	6.5	2.0	5.5	4.0	---	---
MONTH					---	---	7.5	1.5	6.5	1.5	---	---

15564885 JIM RIVER NEAR BETTLES

LOCATION.--Lat 66°47'10", long 150°52'23", in SW¼ sec.30, T.23 N., R.15 W., Hydrologic Unit 19030005, on right bank, 4.2 mi (6.8 km) west of Prospect Camp, 4.8 mi (7.7 km) downstream from Prospect Creek, 12.3 mi (19.8 km) upstream from mouth, and 20 mi (32 km) southeast of Bettles.

DRAINAGE AREA.--465 mi² (1,204 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 820 ft (250 m), from topographic map.

REMARKS.--Water-discharge records estimated for period of no gage-height record prior to May 12 and fair thereafter.

AVERAGE DISCHARGE.--6 years, 429 ft³/s (12.15 m³/s), 12.53 in/yr (318 mm/yr), 310,800 acre-ft/yr (393 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,810 ft³/s (278 m³/s) Sept. 19, 1975, gage height, 17.27 ft (5.264 m), from rating curve extended above 5,000 ft³/s (140 m³/s); minimum daily, 5.4 ft³/s (0.15 m³/s) Feb. 2 to Apr. 15, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum evident flood discharge about 13,000 ft³/s (370 m³/s) from slope-area estimate.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,990 ft³/s (198 m³/s) May 25, gage height, 16.33 ft (4.977 m); minimum daily, 25 ft³/s (0.7 m³/s) Mar. 21 to Apr. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	50	40	40	35	30	25	140	1490	1440	540	315
2	100	50	40	40	35	30	25	170	2000	930	405	339
3	100	50	40	40	35	30	25	200	2240	692	348	360
4	100	50	40	40	35	30	25	240	1840	1960	306	460
5	100	50	40	40	35	30	25	300	1870	2250	282	484
6	100	45	40	40	35	30	25	350	2000	1190	265	428
7	100	45	40	40	35	30	25	450	2600	805	252	390
8	100	45	40	40	35	30	25	520	1400	644	506	369
9	100	45	40	40	35	30	25	600	1090	580	1550	363
10	100	45	40	40	35	30	25	700	1220	508	1248	372
11	90	40	40	40	30	30	25	800	1020	468	894	375
12	90	40	40	40	30	30	25	900	830	432	700	360
13	90	40	40	40	30	30	25	1080	700	384	736	339
14	90	40	40	40	30	30	25	1340	648	339	780	327
15	90	40	40	40	30	30	25	1500	636	303	672	312
16	90	40	40	35	30	30	25	1280	668	324	616	306
17	90	40	40	35	30	30	30	1110	620	342	576	298
18	70	40	40	35	30	30	35	1140	835	378	524	288
19	90	40	40	35	30	30	40	1550	960	411	476	280
20	90	40	40	35	30	30	43	1780	712	369	464	282
21	90	40	40	35	30	25	48	1680	592	336	448	288
22	80	40	40	35	30	25	50	1210	528	298	408	288
23	80	40	40	35	30	25	56	1480	428	272	387	432
24	80	40	40	35	30	25	60	3260	393	252	375	984
25	80	40	40	35	30	25	66	5120	888	260	360	780
26	70	40	40	35	30	25	72	2340	1320	333	342	600
27	70	40	40	35	30	25	80	1550	815	378	321	500
28	60	40	40	35	30	25	90	1380	676	330	303	400
29	60	40	40	35	30	25	100	1490	616	295	295	300
30	60	40	40	35	---	25	120	1510	994	427	300	250
31	60	---	40	35	---	25	---	1500	---	700	300	---
TOTAL	2670	1275	1240	1160	920	875	1290	38670	32629	18630	15971	11869
MEAN	86.1	42.5	40.0	37.4	31.7	28.2	43.0	1247	1088	601	515	396
MAX	100	50	40	40	35	30	120	5120	2600	2250	1550	984
MIN	60	40	40	35	30	25	25	140	393	252	252	250
CFSM	.19	.09	.09	.08	.07	.06	.09	2.68	2.34	1.29	1.11	.85
IN.	.21	.10	.10	.09	.07	.07	.10	3.09	2.61	1.49	1.28	.95
AC-FT	5300	2530	2460	2300	1820	1740	2560	76700	64720	36950	31680	23540

CAL YR 1975 TOTAL 134046 MEAN 367 MAX 8160 MIN 20 CFSM .79 IN 10.72 AC-FT 265900
WTR YR 1976 TOTAL 127199 MEAN 348 MAX 5120 MIN 25 CFSM .75 IN 10.18 AC-FT 252300

15564885 JIM RIVER NEAR BETTLES--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1971 to current year.

INSTRUMENTATION.--Water temperature recorder since June 11, 1971.

REMARKS.--No record Oct. 1 to May 12, when the recorder was started. The river is ice covered from October to May.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.5°C July 11-13, 1975; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 16.0°C July 14, 24, 25, Aug. 2, 3, 5, 6; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY						
12...	1300	970	6.1	2.0	15	19

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	5.5	4.0	8.5	6.0	15.0	10.0	10.0	7.5
2			---	---	6.0	3.5	6.5	5.5	16.0	11.0	9.0	6.5
3			---	---	6.0	3.5	7.5	6.0	16.0	12.0	8.5	7.5
4			---	---	7.5	4.0	7.5	6.0	15.0	11.0	7.5	5.0
5			---	---	8.0	4.5	6.0	5.0	16.0	11.0	5.0	4.0
6			---	---	8.0	4.5	9.0	5.5	16.0	11.5	6.0	3.5
7			---	---	5.0	3.0	11.5	6.5	15.0	12.0	6.0	4.0
8			---	---	6.5	4.0	10.0	8.0	12.5	9.5	6.0	5.0
9			---	---	9.0	5.5	12.0	7.5	9.5	8.5	6.0	5.0
10			---	---	9.5	6.0	11.0	8.5	11.5	8.5	5.5	4.5
11			---	---	10.0	7.5	12.0	9.0	12.0	8.5	5.5	5.0
12			2.0	---	12.0	7.5	14.5	9.5	13.0	8.5	6.0	4.5
13			1.5	0.5	11.0	8.5	14.0	10.0	12.5	11.0	6.5	4.0
14			2.0	0.5	12.0	8.5	16.0	10.0	11.5	9.5	6.0	4.5
15			2.0	0.5	12.5	9.0	14.5	11.5	11.5	9.5	---	---
16			1.5	0.5	12.0	10.0	15.0	11.0	11.5	8.5	---	---
17			2.0	0.5	11.0	8.5	14.0	11.0	11.0	9.0	---	---
18			1.5	1.0	10.0	8.5	15.0	11.0	11.5	8.0	---	---
19			2.0	1.0	9.0	7.5	14.0	11.5	11.0	8.5	---	---
20			3.0	1.0	11.0	6.0	15.0	10.0	11.5	8.5	---	---
21			2.0	1.0	11.0	8.5	15.0	11.5	11.0	7.5	---	---
22			3.0	1.0	10.0	8.0	15.0	11.5	11.0	8.0	---	---
23			3.5	2.0	9.0	7.5	14.5	11.5	11.0	8.5	---	---
24			2.5	1.5	9.0	8.0	16.0	11.5	10.0	8.5	---	---
25			2.5	1.0	8.0	7.5	16.0	12.0	12.5	9.0	---	---
26			3.0	1.5	9.5	5.5	15.0	12.0	12.5	9.5	---	---
27			3.5	2.0	12.0	8.5	12.5	11.0	12.0	8.5	---	---
28			3.5	3.0	11.5	9.5	13.0	10.0	11.0	8.0	---	---
29			4.0	2.5	10.0	8.5	12.5	11.0	11.0	8.0	---	---
30			4.5	3.0	9.5	8.5	12.5	11.0	11.0	9.0	---	---
31			4.5	3.0	---	---	13.0	9.0	9.5	8.5	---	---
MONTH			---	---	12.5	3.0	16.0	5.0	16.0	7.5	---	---

15564900 KOYUKUK RIVER AT HUGHES

LOCATION.--Lat 66°02'51", long 154°15'30", in SE¼SE¼ sec.33, T.8 N., R.22 E., Hydrologic Unit 19030005, on left bank at north end of runway at Hughes and 0.6 mi (1.0 km) upstream from Hughes Creek.

DRAINAGE AREA.--18,700 mi^2 (48,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WSP 1936: 1960.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 250 ft (76 m), from topographic map. June 5 to Sept. 30, 1960, on right bank at same datum.

REMARKS.--Records poor except those for period of no gage-height record, Oct. 7 to May 11, which are estimated.

AVERAGE DISCHARGE.--16 years, 14,340 ft^3/s (406.1 m^3/s), 10.41 in/yr (265 mm/yr), 10,390,000 acre-ft/yr (12.8 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 266,000 ft^3/s (7,530 m^3/s) June 6, 1964, gage height, 31.09 ft (9.476 m); maximum gage height, 34.33 ft (10.464 m) May 26, 1965, from floodmarks, backwater from ice; minimum daily discharge, 200 ft^3/s (5.7 m^3/s) Apr. 1-15, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1937 reached a stage of about 34 ft (10.4 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86,000 ft^3/s (2,440 m^3/s) June 10, gage height, 20.6 ft (6.28 m), from floodmarks; maximum gage height, 29.01 ft (8.842 m) May 8, from floodmarks, backwater from ice; minimum daily discharge, 400 ft^3/s (11 m^3/s) Jan. 21 to Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	2700	620	440	400	400	400	1100	20200	29800	23800	10000
2	14400	2400	600	440	400	400	400	1400	20800	25000	33100	10000
3	14000	2200	600	430	400	400	400	1800	22000	26800	26200	10900
4	13600	2000	580	430	400	400	400	2200	27400	28600	19000	11600
5	12800	1800	580	430	400	400	400	3500	45200	28000	18000	12800
6	12400	1700	560	430	400	400	400	6000	50800	35200	16000	14000
7	12000	1500	560	430	400	400	400	9000	54000	40400	15000	17000
8	11000	1400	560	430	400	400	400	12000	59600	31000	14000	17500
9	11000	1300	560	430	400	400	400	16000	72000	23800	13600	16500
10	10000	1200	540	420	400	400	400	26000	83000	21400	14800	16000
11	9800	1100	540	410	400	400	400	40000	71000	20200	20200	15600
12	9400	1100	520	410	400	400	400	68300	56400	19000	26200	14800
13	9000	1000	520	410	400	400	400	48400	54800	19000	24400	14400
14	8600	960	520	410	400	400	400	37300	53200	19600	22000	14000
15	8200	940	520	410	400	400	400	36600	51600	18500	20800	13200
16	7800	900	500	410	400	400	400	37300	54000	19000	22000	12400
17	7400	860	500	410	400	400	400	36600	50800	19600	22600	12000
18	7200	820	500	410	400	400	400	33800	46800	19600	21400	11600
19	7000	780	490	410	400	400	400	33800	42800	20200	20200	10900
20	6800	760	480	410	400	400	400	38000	46800	23200	18500	11000
21	6400	740	480	400	400	400	420	42800	51600	23800	17500	12000
22	5800	720	480	400	400	400	450	40400	50800	20200	16000	14000
23	5600	700	470	400	400	400	470	33800	39600	18000	14800	17000
24	5400	680	470	400	400	400	500	30400	32400	16000	14000	17500
25	5200	680	460	400	400	400	520	40400	29800	16000	12800	18000
26	4800	660	460	400	400	400	560	61200	28600	16000	12000	19000
27	4500	660	460	400	400	400	620	62000	33800	16000	11200	20200
28	4200	640	460	400	400	400	660	50800	41200	17000	10900	20800
29	3800	620	450	400	400	400	760	39600	33800	18000	10600	20800
30	3400	620	450	400	---	400	950	29800	32400	18500	10300	21400
31	3100	---	450	400	---	400	---	23800	---	18500	10000	---
TOTAL	258600	34140	15940	12810	11600	12400	13910	944100	1357200	685900	551900	446900
MEAN	8342	1138	514	413	400	400	464	30450	45240	22130	17800	14900
MAX	14400	2700	620	440	400	400	950	68300	83000	40400	33100	21400
MIN	3100	620	450	400	400	400	400	1100	20200	16000	10000	10000
CFSM	.45	.06	.03	.02	.02	.02	.02	1.63	2.42	1.18	.95	.80
IN.	.51	.07	.03	.03	.02	.02	.03	1.88	2.70	1.36	1.10	.89
AC-FT	512900	67720	31620	25410	23010	24600	27590	1873000	2692000	1360000	1095000	886400

CAL YR 1975 TOTAL 4232280 MEAN 11600 MAX 103000 MIN 400 CFSM .62 IN 8.42 AC-FT 8395000
WTR YR 1976 TOTAL 4345400 MEAN 11870 MAX 83000 MIN 400 CFSM .63 IN 8.64 AC-FT 8619000

15564900 KOYUKUK RIVER AT HUGHES--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1960-61, 1965-72, 1974 and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR				
18...	1400	400	280	.0

15565235 OPHIR CREEK NEAR TAKOTNA

LOCATION.--Lat 63°08'42", long 156°31'15", in SE¼SW¼ sec.14, T.27 S., R.12 E., Hydrologic Unit 19030006, on right bank 25 ft (7.6 m) downstream from road crossing between airstrip and old town of Ophir, 500 ft (150 m) upstream from mouth, and 20 mi (32 km) northwest of Takotna.

DRAINAGE AREA.--6.19 mi^3 (16.03 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (177 m), from topographic map.

REMARKS.--Records fair August and September 1975. Records poor during 1976 water year except those for June 10 to Aug. 22, which are fair.

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum discharge during period, 18 ft^3/s (0.51 m^3/s) Sept. 19, gage height, 1.75 ft (0.533 m), from rating curve extended above 10 ft^3/s (0.3 m^3/s); minimum, 2.5 ft^3/s (0.071 m^3/s) Aug. 23, 24, gage height, 1.27 ft (0.387 m).

Water year 1976: Maximum gage height, 3.59 ft (1.094 m) probably in May, from high-water mark, backwater from ice, discharge not determined; minimum daily discharge, about 0.1 ft^3/s (0.003 m^3/s) Jan. 27 to Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	4.0	3.5	9	3.7	9.2	17	2.6	8.2	25	3.1	7.5
2	4.0	3.5	10	3.5	10	18	2.8	14	26	3.5	6.7
3	4.5	3.5	11	3.3	11	19	2.9	16	27	3.3	6.1
4	4.5	3.7	12	3.3	9.9	20	2.8	14	28	3.1	7.0
5	4.5	4.8	13	3.1	8.5	21	2.6	13	29	2.9	6.4
6	4.0	9.6	14	2.9	7.2	22	2.6	11	30	3.3	5.6
7	4.0	15	15	2.9	6.7	23	2.5	9.6	31	3.5	---
8	4.0	11	16	2.9	6.1	24	2.8	8.2			

AUGUST TOTAL 103.4 MEAN 3.34 MAX 4.5 MIN 2.5 CFSM .54 IN. .62 AC-FT 205
SEPTEMBER TOTAL 256.5 MEAN 8.55 MAX 16 MIN 3.5 CFSM 1.38 IN. 1.54 AC-FT 509

15565235 OPHIR CREEK NEAR TAKOTNA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	1.5	.60	.20	.10	.10	.20	12	6.0	2.1	1.6	1.8
2	4.8	1.5	.60	.20	.10	.10	.30	20	6.0	2.2	1.6	1.8
3	4.6	1.5	.60	.20	.10	.10	.50	25	6.0	2.5	1.5	1.8
4	4.2	1.5	.50	.20	.10	.10	.80	22	7.0	3.7	1.4	1.8
5	4.0	1.5	.50	.20	.10	.10	.70	19	9.0	3.5	1.2	1.6
6	4.0	1.0	.50	.20	.10	.10	.70	16	12	2.9	1.2	1.6
7	4.0	1.0	.50	.20	.10	.10	.70	14	15	2.9	1.3	1.5
8	4.0	1.0	.50	.20	.10	.10	.70	13	14	3.3	1.4	1.6
9	4.0	1.0	.40	.20	.10	.10	.80	13	11	2.8	1.4	1.6
10	4.0	1.0	.40	.20	.10	.10	.80	13	9.6	2.5	1.3	1.9
11	4.0	1.0	.40	.20	.10	.10	.80	14	7.0	2.3	1.3	2.1
12	4.0	1.0	.40	.20	.10	.10	.70	15	5.3	2.3	1.2	1.8
13	3.5	1.0	.40	.20	.10	.10	.70	15	4.6	2.1	1.2	1.6
14	3.5	1.0	.30	.20	.10	.10	.70	13	4.0	2.2	1.4	1.6
15	3.5	1.0	.30	.20	.10	.10	.70	12	3.7	2.2	1.4	1.9
16	3.5	1.0	.30	.20	.10	.10	.70	11	4.0	2.1	1.3	1.8
17	3.5	1.0	.30	.20	.10	.10	.80	10	4.4	1.9	1.3	1.6
18	3.0	.90	.30	.20	.10	.10	.90	10	8.8	1.9	1.5	1.5
19	3.0	.90	.30	.20	.10	.10	1.0	9.0	6.4	1.9	1.4	1.5
20	3.0	.90	.30	.20	.10	.10	1.1	9.0	5.6	1.8	1.2	1.6
21	3.0	.90	.30	.20	.10	.10	1.2	8.0	5.0	1.6	1.1	1.6
22	3.0	.90	.30	.20	.10	.10	1.4	8.0	4.4	1.5	1.1	1.6
23	3.0	.90	.30	.20	.10	.10	1.7	8.0	4.2	1.5	1.4	1.3
24	2.5	.90	.30	.20	.10	.10	2.0	8.0	4.0	1.4	1.4	1.2
25	2.5	.80	.30	.20	.10	.10	2.5	9.0	3.7	1.4	1.3	1.1
26	2.5	.80	.30	.20	.10	.10	3.0	9.0	3.3	1.4	1.5	1.0
27	2.0	.80	.30	.10	.10	.10	3.5	9.0	2.9	1.3	1.8	1.0
28	2.0	.80	.30	.10	.10	.10	5.0	9.0	2.6	1.3	1.8	1.0
29	2.0	.70	.30	.10	.10	.10	7.0	8.0	2.5	1.6	1.9	1.0
30	1.5	.70	.30	.10	---	.10	9.0	7.0	2.3	2.1	2.1	1.0
31	1.5	---	.30	.10	---	.10	---	7.0	---	1.9	1.9	---
TOTAL	102.6	30.40	11.70	5.70	2.90	3.10	50.60	375.0	184.3	66.1	44.4	45.8
MEAN	3.31	1.01	.38	.18	.10	.10	1.69	12.1	6.14	2.13	1.43	1.53
MAX	5.0	1.5	.60	.20	.10	.10	9.0	25	15	3.7	2.1	2.1
MIN	1.5	.70	.30	.10	.10	.10	.20	7.0	2.3	1.3	1.1	1.0
CFSM	.53	.16	.06	.03	.02	.02	.27	1.95	.99	.34	.23	.25
IN.	.62	.18	.07	.03	.02	.02	.30	2.25	1.11	.40	.27	.28
AC-FT	204	60	23	11	5.8	6.1	100	744	366	131	88	91

WTR YR 1976 TOTAL 922.60 MEAN 2.52 MAX 25 MIN .10 CFSM .41 IN 5.54 AC-FT 1830

NOTE.--No gage-height record Oct. 5 to June 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUN										
10...	0900	9.5	170	7.6	15.0	3.0	80	6	96	3.9
JUL										
29...	2000	2.2	305	8.0	--	9.5	15	3	--	--
SEP										
25...	1100	1.1	350	8.3	--	2.5	10	2	217	1.7

15565447 YUKON RIVER AT PILOT STATION

(National stream-quality accounting, pesticide, and radiochemical networks station)

LOCATION.--Lat 61°56'04", long 162°52'50", in SW¼SE¼ sec.5, T.21 N., R.74 W., Hydrologic Unit 19030006, on right bank 0.2 mi (0.3 km) downstream from village of Pilot Station, 2.4 mi (3.9 km) downstream from Atchuelinguk River, and 19 mi (31 km) upstream from Andreafsky River.

DRAINAGE AREA.--321,000 mi^2 (831,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 7 to June 7, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.2 ft (9.20 m) about May 23, from floodmarks, ice jam, discharge not determined; minimum daily discharge, about 37,000 ft^3/s (1,000 m^3/s) Apr. 11-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	391000	230000	130000	72000	60000	49000	42000	42000	570000	475000	386000	329000
2	391000	230000	130000	72000	60000	49000	42000	44000	560000	469000	383000	326000
3	389000	210000	110000	72000	60000	49000	42000	46000	560000	463000	381000	321000
4	386000	210000	110000	72000	60000	49000	42000	48000	555000	457000	376000	316000
5	381000	210000	110000	72000	60000	49000	42000	50000	550000	454000	373000	311000
6	376000	210000	110000	72000	56000	49000	39000	52000	550000	448000	368000	295000
7	370000	210000	110000	72000	56000	49000	39000	56000	545000	445000	363000	290000
8	370000	190000	110000	72000	56000	49000	39000	60000	545000	439000	355000	283000
9	350000	190000	100000	72000	56000	49000	39000	64000	545000	433000	350000	275000
10	350000	190000	100000	72000	56000	49000	39000	68000	551000	430000	347000	270000
11	350000	190000	100000	68000	56000	47000	37000	72000	551000	424000	344000	265000
12	330000	170000	100000	68000	56000	47000	37000	80000	551000	419000	344000	260000
13	330000	170000	94000	68000	56000	47000	37000	90000	551000	413000	342000	254000
14	330000	170000	94000	68000	56000	47000	37000	100000	551000	410000	342000	250000
15	330000	170000	94000	68000	56000	47000	37000	110000	551000	405000	342000	245000
16	310000	170000	88000	68000	52000	44000	37000	130000	551000	399000	342000	240000
17	310000	150000	88000	68000	52000	44000	37000	180000	548000	394000	342000	235000
18	310000	150000	82000	68000	52000	44000	37000	220000	545000	389000	342000	230000
19	290000	150000	82000	68000	52000	44000	37000	290000	545000	383000	339000	226000
20	290000	150000	80000	68000	52000	44000	37000	350000	542000	381000	337000	224000
21	290000	150000	80000	64000	52000	44000	37000	450000	539000	376000	334000	222000
22	270000	150000	80000	64000	52000	44000	37000	600000	532000	373000	331000	220000
23	270000	130000	80000	64000	52000	44000	37000	700000	529000	370000	326000	219000
24	270000	130000	80000	64000	52000	44000	37000	670000	523000	368000	326000	218000
25	250000	130000	80000	64000	52000	44000	37000	650000	516000	368000	324000	217000
26	250000	130000	76000	64000	52000	42000	37000	640000	510000	373000	326000	214000
27	250000	130000	76000	64000	52000	42000	38000	620000	500000	376000	331000	211000
28	250000	130000	76000	64000	52000	42000	39000	610000	494000	376000	334000	208000
29	230000	130000	76000	64000	52000	42000	39000	600000	487000	378000	334000	205000
30	230000	130000	76000	64000	---	42000	40000	590000	481000	383000	334000	203000
31	230000	---	76000	64000	---	42000	---	580000	---	386000	331000	---
TOTAL	9724000	5060000	2878000	2104000	1588000	1417000	1153000	8862000	16128000	12657000	10729000	7582000
MEAN	313700	168700	92840	67870	54760	45710	38430	285900	537600	408300	346100	252700
MAX	391000	230000	130000	72000	60000	49000	42000	700000	570000	475000	386000	329000
MIN	230000	130000	76000	64000	52000	42000	37000	42000	481000	368000	324000	203000
CFSM	.98	.53	.29	.21	.17	.14	.12	.89	1.67	1.27	1.08	.79
IN.	1.13	.59	.33	.24	.18	.16	.13	1.03	1.87	1.47	1.24	.88
AC-FT	19290000	10040000	5709000	4173000	3150000	2811000	2287000	17580000	31990000	25110000	21280000	15040000

WTR YR 1976 TOTAL 79882000 MEAN 218300 MAX 700000 MIN 37000 CFSM .68 IN 9.26 AC-FT 158400000

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-56, 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to September 1976.

INSTRUMENTATION.--Temperature recorder since June 9, 1976.

REMARKS.--No record July 28 when thermograph was out of water and Sept. 24-30 when boat was removed from river.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.0°C July 26; minimum not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
DEC 19...	1530	80800	300	7.4	-10.0	.0	--	9	--	--	--
APR 15...	1530	37500	300	6.9	--	.0	--	9	--	--	<1
JUN 09...	1100	561000	140	7.3	4.0	9.0	80	52	9.2	#15	<1
JUL 28...	2000	380000	180	7.8	12.0	17.5	20	170	9.1	--	#14
SEP 23...	1800	219000	213	8.1	13.0	8.0	20	50	11.0	--	#5

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 19...	--	160	8	47	10	3.0	2.1	183	0	12
APR 15...	<1	150	9	45	10	3.8	1.7	176	0	35
JUN 09...	<1	66	9	20	4.0	1.3	1.1	70	0	5.6
JUL 28...	<1	94	12	28	5.8	2.1	1.3	100	0	2.5
SEP 23...	#5	110	12	31	7.6	2.8	1.2	118	0	1.5

# Non-ideal colony count

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 19...	23	1.1	.1	12	197	189	.17	.61	.78	.02
APR 15...	20	.8	.1	12	186	180	.30	.17	.47	.02
JUN 09...	9.1	1.8	.1	5.6	100	78	.11	.55	.66	.26
JUL 28...	22	1.1	.1	5.7	127	115	.08	.61	.69	.46
SEP 23...	21	.7	.2	6.3	126	129	.43	.68	1.1	.17

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
DEC 19...	1530	--	--	--	--	--	--	--	--	--	--
APR 15...	1530	2	1	1	<10	<9	1	0	0	0	<50
JUL 28...	2000	15	14	1	<10	<10	0	20	20	0	<50
SEP 23...	1800	3	2	1	<10	<10	0	0	0	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
APR 15...	<50	0	10	8	2	1600	60	<100	<99	1	190
JUL 28...	<49	1	40	38	2	18000	20	<100	<100	0	400
SEP 23...	<50	0	20	15	5	5000	40	<100	<99	1	140

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
APR 15...	0	200	.0	.0	.0	--	0	0	0	30	30
JUL 28...	400	0	.2	.0	.2	--	1	1	0	60	60
SEP 23...	140	0	.2	.0	.3	2	0	0	0	0	0

DATE	DISSOLVED ZINC (ZN) (UG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
DEC 19...	--	220	4	3.0	<.4	3.6	<.6	3.0	<.5	.04	<.01
APR 15...	0	--	--	--	--	--	--	--	--	--	--
JUL 28...	0	110	--	2.3	21	4.0	18	3.5	16	.05	--
SEP 23...	0	--	--	--	--	--	--	--	--	--	--

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	SIMA-ZINE TOTAL((UG/L)	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
APR 15...	1530	2.6	--	--	--	--	--	--	--
JUN 09...	1100	--	--	ND	ND	ND	ND	ND	ND
JUL 28...	2000	16	ND	ND	ND	ND	ND	ND	ND
SEP 23...	1800	8.4	--	--	--	--	--	--	--

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)
APR 15...	--	--	--	--	--	--	--	--	--
JUN 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL 28...	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP 23...	--	--	--	--	--	--	--	--	--

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
APR 15...	--	--	--	--	--	--	--	--
JUN 09...	ND	ND	ND	ND	ND	ND	ND	ND
JUL 28...	ND	ND	ND	ND	ND	ND	ND	ND
SEP 23...	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPO-SURE (DAYS)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M
DEC 19...	1530	--	2	--	--	--	--
APR 15...	1530	--	1	--	--	--	--
JUN 09...	1100	--	290	--	--	--	--
JUL 28...	2000	49	1300	.385	.846	.000	1.00
SEP 23...	1800	57	480	.308	.846	.000	.543

15565447 YUKON RIVER AT PILOT STATION--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
DEC 19	1530	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
		D ....FRAGILARIA			100	
			TOTALS	2	100	
		TOTAL		2		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
APR 15	1530	CHRYSOPHYTA				SEDIMENT SAMPLER
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
		D ....FRAGILARIA		1	100	
			TOTALS	1	100	
		TOTAL		1		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
JUN 9	1100	CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....ANKISTRODESMUS		10	4	
		....KIRCHNERIELLA		42	14	
			TOTALS	52	18	
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....MELOSIRA		42	14	
		..PENNALES	PENNATE			
		...CYMBELLACEAE				
		....CYMBELLA		10	4	
		...EUNOTIACEAE				
		....EUNOTIA		21	7	
		...FRAGILARIACEAE				
		....SYNEDRA		21	7	
		...GOMPHONEMATACEAE				
		....GOMPHONEMA		10	4	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		31	11	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		100	36	
			TOTALS	240	83	
		TOTAL		290		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	SAMPLING METHOD
JUL 28	2000	CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....ANKISTRODESMUS		71	6	
			TOTALS	71	6	
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA		35	3	
		D ....MELOSIRA		710	56	
		..PENNALES	PENNATE			
		...CYMBELLACEAE				
		L ....CYMBELLA			0	
		...FRAGILARIACEAE				
		....ASTERIONELLA		140	11	
		...NAVICULACEAE	NAVICULOID			
		....FRUSTULIA		71	6	
		...NITZSCHIACEAE				
		D ....NITZSCHIA		210	17	
		...TABELLARIACEAE				
		....TABELLARIA		35	3	
			TOTALS	1.200	96	
		TOTAL		1,300		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

15565447 YUKON RIVER AT PILOT STATION--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT	SAMPLING METHOD
SEP 23	1800		CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
			.CHLOROPHYCEAE				
			..CHLOROCOCCALES				
			...OOCYSTACEAE				
			....ANKISTRODESMUS		10	2	
				TOTALS	10	2	
			CHRYSOPHYTA				
			.BACILLARIOPHYCEAE	DIATOMS			
			..CENTRALES	CENTRIC			
			...COSCINODISCACEAE				
			....CYCLOTELLA		31	7	
		D	....MELOSIRA		110	24	
			..PENNALES	PENNATE			
			...ACHNANTHACEAE				
			....ACHNANTHES		31	7	
			...DIATOMACEAE				
			....DIATOMA		31	7	
			...FRAGILARIACEAE				
			....SYNEDRA		10	2	
			...GOMPHONEMATACEAE				
			....GOMPHONEMA		10	2	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		10	2	
			...NITZSCHIACEAE				
		D	....NITZSCHIA		230	48	
				TOTALS	470	99	
			TOTAL		480		

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM
DEC 19...	1530	80800	-10.0	.0	9	2	436	--
APR 15...	1530	37500	--	.0	9	2	202	--
JUN 09...	1100	561000	4.0	9.0	52	333	504000	6
JUL 28...	2000	380000	12.0	17.5	170	421	432000	25
SEP 23...	1800	219000	13.0	8.0	50	107	63300	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
DEC 19...	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--
JUN 09...	9	15	25	42	62	88	100
JUL 28...	37	51	64	81	93	99	100
SEP 23...	--	--	--	--	89	--	--

15565447 YUKON RIVER AT PILOT STATION--Continued

TEMPERATURE (DEG. C) OF WATER, JUNE TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	15.5	15.0	17.0	16.5	14.5	14.0
2					---	---	15.5	15.0	16.5	16.0	14.0	13.5
3					---	---	15.5	14.5	16.0	15.5	14.0	13.5
4					---	---	14.5	14.5	16.5	15.5	13.5	13.0
5					---	---	14.5	14.0	17.0	16.5	13.0	12.5
6					---	---	14.0	14.0	17.0	17.0	12.5	12.0
7					---	---	14.5	14.0	17.0	17.0	12.0	12.0
8					---	---	14.5	14.0	17.5	17.0	12.0	12.0
9					9.5	8.5	14.5	14.0	17.5	17.0	12.0	11.0
10					10.0	9.0	15.0	14.5	17.0	17.0	11.5	11.0
11					10.5	9.5	15.0	15.0	17.5	17.0	11.0	10.5
12					11.5	10.5	15.5	15.0	17.5	17.0	10.5	10.5
13					12.5	11.5	16.0	15.5	17.5	17.5	10.5	10.0
14					13.5	12.5	16.0	16.0	17.5	17.0	10.0	10.0
15					14.0	13.5	17.0	16.0	17.0	16.5	10.0	9.5
16					14.0	13.5	17.0	16.5	16.5	16.5	10.0	9.5
17					14.0	14.0	17.5	17.0	16.5	16.0	9.5	9.5
18					14.0	14.0	17.5	17.0	16.0	15.5	9.5	9.0
19					14.0	14.0	17.0	16.5	16.0	15.5	9.0	9.0
20					14.0	14.0	17.0	16.5	16.0	15.5	9.0	8.5
21					14.5	14.0	17.0	15.5	15.5	15.5	8.5	8.5
22					14.0	14.0	17.5	16.0	16.0	15.5	8.5	8.0
23					14.0	13.5	17.0	16.5	16.0	15.5	8.0	8.0
24					13.5	13.5	17.0	16.5	15.5	15.0	---	---
25					14.0	13.5	17.5	16.0	15.0	15.0	---	---
26					14.0	14.0	18.0	16.5	15.0	14.5	---	---
27					14.0	13.5	17.5	17.5	15.0	14.5	---	---
28					14.5	14.0	---	---	14.5	14.5	---	---
29					15.0	14.5	17.0	16.0	15.0	14.5	---	---
30					15.5	14.5	16.5	16.5	15.0	14.5	---	---
31					---	---	17.0	16.0	16.0	14.5	---	---
MONTH					---	---	18.0	14.0	17.5	14.5	---	---

15621000 SNAKE RIVER NEAR NOME

LOCATION.--Lat 64°33'51", long 165°30'26", in SE¼ sec.5, T.11 S., R.34 W., Hydrologic Unit 19020002, on downstream side of bridge on Nome-Teller Highway, 5.4 mi (8.7 km) northwest of Nome.

DRAINAGE AREA.--85.7 mi^2 (222 km^2), approximately.

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.58 ft (2.615 m) above mean sea level (USC&GS data furnished by Alaska Highway Department, Nome).

REMARKS.--Records good except those for period of no gage-height record, Oct. 16 to May 25, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 182 ft^3/s (5.154 m^3/s), 28.84 in/yr (733 mm/yr), 131,900 acre-ft/yr (163 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft^3/s (119 m^3/s) June 2, 1966, gage height, 11.90 ft (3.627 m); maximum gage height, 13.59 ft (4.142 m) May 15, 1975, backwater from ice; minimum daily discharge, about 1.0 ft^3/s (0.028 m^3/s) Feb. 25 to May 15, 1971, but may be no flow at times during some winters.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,890 ft^3/s (81.8 m^3/s) June 2, gage height, 10.53 ft (3.210 m); minimum daily, about 20 ft^3/s (0.57 m^3/s) Feb. 10 to May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	60	35	25	25	20	20	20	1080	100	80	112
2	156	60	35	25	25	20	20	20	1950	94	80	108
3	148	60	35	25	25	20	20	20	833	140	81	106
4	136	60	35	25	25	20	20	20	392	160	80	122
5	134	55	35	25	25	20	20	20	907	120	75	194
6	138	55	35	25	25	20	20	25	633	106	71	210
7	142	55	35	25	25	20	20	25	408	99	74	172
8	128	55	35	25	25	20	20	25	338	94	92	162
9	122	50	35	25	25	20	20	30	412	90	82	154
10	118	50	30	25	20	20	20	30	462	86	79	198
11	116	50	30	25	20	20	20	30	420	82	78	232
12	114	50	30	25	20	20	20	30	405	80	75	242
13	110	50	30	25	20	20	20	35	418	76	76	234
14	100	45	30	25	20	20	20	40	360	73	90	228
15	100	45	30	25	20	20	20	50	304	72	258	226
16	95	45	30	25	20	20	20	70	278	71	256	224
17	95	45	30	25	20	20	20	100	234	74	238	218
18	90	45	30	25	20	20	20	150	212	74	222	208
19	90	45	30	25	20	20	20	200	188	72	202	202
20	85	40	30	25	20	20	20	250	166	71	188	198
21	85	40	30	25	20	20	20	250	154	69	172	196
22	80	40	30	25	20	20	20	250	140	65	162	194
23	80	40	30	25	20	20	20	250	130	62	156	186
24	75	40	30	25	20	20	20	250	128	60	156	180
25	75	40	30	25	20	20	20	250	122	59	154	172
26	70	40	30	25	20	20	20	238	116	58	152	168
27	70	40	30	25	20	20	20	226	116	57	140	162
28	70	35	30	25	20	20	20	218	112	62	130	158
29	65	35	25	25	20	20	20	214	110	79	122	152
30	65	35	25	25	---	20	20	220	106	100	118	150
31	65	---	25	25	---	20	---	240	---	90	116	---
TOTAL	3181	1405	960	775	625	620	600	3796	11634	2595	4055	5468
MEAN	103	46.8	31.0	25.0	21.6	20.0	20.0	122	388	83.7	131	182
MAX	164	60	35	25	25	20	20	250	1950	160	258	242
MIN	65	35	25	25	20	20	20	20	106	57	71	106
CFSM	1.20	.55	.36	.29	.25	.23	.23	1.42	4.53	.98	1.53	2.12
IN.	1.38	.61	.42	.34	.27	.27	.26	1.65	5.05	1.13	1.76	2.37
AC-FT	6310	2790	1900	1540	1240	1230	1190	7530	23080	5150	8040	10850

CAL YR 1975 TOTAL 70643 MEAN 194 MAX 2870 MIN 20 CFSM 2.26 IN 30.66 AC-FT 140100
WTR YR 1976 TOTAL 35714 MEAN 97.6 MAX 1950 MIN 20 CFSM 1.14 IN 15.50 AC-FT 70840

15668200 CRATER CREEK NEAR NOME

LOCATION.--Lat 64°55'48", long 164°52'12", revised, in NW¼NW¼ sec.36, T.6 S., R.31 W., Hydrologic Unit 19020002, on right bank 15 ft (5 m) upstream from culvert at mile 43 (69 km) on Nome-Kougarok Highway, 1.1 mi (1.8 km) upstream from mouth, and 34 mi (55 km) northeast of Nome.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1964-65, 1967-75. August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (150 m), from topographic map. Sept. 18, 1964 to Aug. 29, 1975, crest-stage gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft^3/s (71.9 m^3/s) July 10, 1975, gage height, 19.71 ft (6.008 m) from floodmarks, road and culvert washed out, from slope-area measurement of peak flow; minimum daily, about 4.0 ft^3/s (0.11 m^3/s) Feb. 18 to May 2, 1976.

EXTREMES FOR CURRENT PERIOD.--Water year 1975: Maximum discharge, 2,540 ft^3/s (71.9 m^3/s) July 10, gage height, 19.71 ft (6.008 m) from floodmarks, by computation of peak flow by slope-area method; minimum daily (August to September), 42 ft^3/s (1.19 m^3/s) Sept. 29, 30.

Water year 1976: Maximum discharge, 502 ft^3/s (14.2 m^3/s) July 29, gage height, 11.54 (3.517 m), from rating curve extended above 230 ft^3/s (6.5 m^3/s) on basis of culvert computation of peak flow; maximum gage height, 12.52 ft (3.816 m) June 12, backwater from ice; minimum daily discharge, about 4.0 ft^3/s (0.11 m^3/s) Feb. 18 to May 2.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	SEP	DAY	AUG	SEP
1	160	6	110	11	58	16	190	21	70	26	---	46
2	82	7	85	12	52	17	125	22	63	27	---	44
3	69	8	76	13	49	18	97	23	56	28	---	44
4	74	9	66	14	74	19	83	24	49	29	---	42
5	89	10	62	15	290	20	75	25	46	30	215	42
										31	145	---

SEPTEMBER TOTAL 2468 MEAN 82.3 MAX 290 MIN 42 CFSM 3.76 IN. 4.19 AC-FT 4900

15668200 CRATER CREEK NEAR NOME--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	14	8.0	6.0	5.0	4.0	4.0	4.0	60	70	62	46
2	40	14	8.0	6.0	5.0	4.0	4.0	4.0	80	55	56	46
3	35	14	8.0	6.0	5.0	4.0	4.0	5.0	100	98	55	48
4	35	14	8.0	5.0	5.0	4.0	4.0	5.0	160	104	50	49
5	35	12	7.0	5.0	5.0	4.0	4.0	5.0	200	90	47	74
6	35	12	7.0	5.0	5.0	4.0	4.0	5.0	200	80	46	106
7	30	12	7.0	5.0	5.0	4.0	4.0	5.0	180	74	65	79
8	30	12	7.0	5.0	5.0	4.0	4.0	6.0	180	68	78	79
9	30	12	7.0	5.0	5.0	4.0	4.0	6.0	200	62	61	74
10	30	12	7.0	5.0	5.0	4.0	4.0	6.0	240	58	66	88
11	25	12	7.0	5.0	5.0	4.0	4.0	6.0	300	56	60	189
12	25	12	7.0	5.0	5.0	4.0	4.0	7.0	330	56	70	135
13	25	10	7.0	5.0	5.0	4.0	4.0	7.0	330	54	90	106
14	25	10	7.0	5.0	5.0	4.0	4.0	7.0	300	54	85	92
15	22	10	7.0	5.0	5.0	4.0	4.0	8.0	260	52	143	83
16	22	10	6.0	5.0	5.0	4.0	4.0	8.0	246	56	112	78
17	22	10	6.0	5.0	5.0	4.0	4.0	9.0	187	58	115	78
18	22	10	6.0	5.0	4.0	4.0	4.0	9.0	147	52	98	77
19	20	10	6.0	5.0	4.0	4.0	4.0	10	122	50	83	71
20	20	9.0	6.0	5.0	4.0	4.0	4.0	12	88	50	71	69
21	20	9.0	6.0	5.0	4.0	4.0	4.0	15	79	54	65	69
22	20	9.0	6.0	5.0	4.0	4.0	4.0	20	70	50	60	65
23	18	9.0	6.0	5.0	4.0	4.0	4.0	30	96	48	58	62
24	18	9.0	6.0	5.0	4.0	4.0	4.0	50	126	46	56	59
25	18	9.0	6.0	5.0	4.0	4.0	4.0	50	98	46	56	57
26	18	8.0	6.0	5.0	4.0	4.0	4.0	50	143	45	63	55
27	16	8.0	6.0	5.0	4.0	4.0	4.0	50	149	44	58	54
28	16	8.0	6.0	5.0	4.0	4.0	4.0	48	121	58	55	53
29	16	8.0	6.0	5.0	4.0	4.0	4.0	48	89	301	52	51
30	16	8.0	6.0	5.0	---	4.0	4.0	48	82	149	50	52
31	14	---	6.0	5.0	---	4.0	---	50	---	76	48	---
TOTAL	758	316.0	205.0	158.0	133.0	124.0	120.0	593.0	4963	2214	2134	2244
MEAN	24.5	10.5	6.61	5.10	4.59	4.00	4.00	19.1	165	71.4	68.8	74.8
MAX	40	14	8.0	6.0	5.0	4.0	4.0	50	330	301	143	189
MIN	14	8.0	6.0	5.0	4.0	4.0	4.0	4.0	60	44	46	46
CFSM	1.12	.48	.30	.23	.21	.18	.18	.87	7.53	3.26	3.14	3.42
IN.	1.29	.54	.35	.27	.23	.21	.20	1.01	8.43	3.76	3.62	3.81
AC-FT	1500	627	407	313	264	246	238	1180	9840	4390	4230	4450

WTR YR 1976 TOTAL 13962.0 MEAN 38.1 MAX 330 MIN 4.0 CFSM 1.74 IN 23.72 AC-FT 27690

NOTE.--No gage-height record Oct. 5 to May 26.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 and 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
SEP				
09...	0750	75	72	3.0

15744000 KOBUK RIVER AT AMBLER

LOCATION.--Lat 67°05'13", long 157°50'51", in SE¼ sec.31, T.20 N., R.5 E., Hydrologic Unit 19020001, on right bank at village of Ambler, and 2.0 mi (3.2 km) downstream from Ambler River.

DRAINAGE AREA.--6,570 mi^2 (17,020 km^2), approximately.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 30 ft (9 m), from topographic map.

REMARKS.--Records estimated prior to May 31, poor thereafter. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 9,103 ft^3/s (257.8 m^3/s), 18.82 in/yr (478 mm/yr), 6,595,000 acre-ft/yr (8.13 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 95,000 ft^3/s (2,690 m^3/s) May 29, 1971; maximum gage height, 46.73 ft (14.243 m) about May 25, 1973, from floodmarks, backwater from ice; minimum daily discharge, 700 ft^3/s (20 m^3/s) Apr. 1-15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 36,600 ft^3/s (1,040 m^3/s) June 7, gage height, 31.94 ft (9.735 m); minimum daily, 900 ft^3/s (25 m^3/s) Dec. 21 to Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9000	2100	1200	900	900	900	900	1300	13600	12000	14800	6700
2	8200	2100	1200	900	900	900	900	1400	16500	12000	14800	6700
3	7600	2000	1200	900	900	900	900	1500	21500	12000	12400	6700
4	7200	2000	1100	900	900	900	900	1600	23500	13000	11200	6700
5	6800	1900	1100	900	900	900	900	1800	27000	14000	10300	6700
6	6400	1900	1100	900	900	900	900	2000	32200	16000	9700	8200
7	6200	1800	1100	900	900	900	900	2300	34600	14000	9100	11500
8	5800	1800	1100	900	900	900	900	2400	30500	12800	8800	11200
9	5400	1700	1000	900	900	900	900	2900	27500	12400	8200	11200
10	5200	1700	1000	900	900	900	900	3300	26500	12100	8500	11200
11	5000	1700	1000	900	900	900	920	3800	24000	11800	8200	10900
12	4700	1700	1000	900	900	900	920	4500	24000	11200	8500	10600
13	4500	1600	980	900	900	900	940	5400	24500	10600	9100	10300
14	4400	1600	980	900	900	900	960	6400	23500	10300	9400	10000
15	4200	1600	960	900	900	900	960	7000	22000	10000	9700	10000
16	4000	1500	960	900	900	900	960	10000	21000	10000	10000	9700
17	3800	1500	940	900	900	900	980	12000	20000	9700	11000	9400
18	3700	1500	940	900	900	900	1000	14000	19000	9400	13000	9700
19	3500	1400	920	900	900	900	1000	18000	18500	9400	12100	9700
20	3400	1400	920	900	900	900	1000	25000	18500	9700	9700	9700
21	3300	1400	900	900	900	900	1000	23000	18000	9400	9400	9700
22	3200	1400	900	900	900	900	1100	21000	18000	8800	8800	9400
23	3100	1300	900	900	900	900	1100	20000	16500	8800	8200	10000
24	3000	1300	900	900	900	900	1100	22000	14800	8800	7900	10900
25	2800	1300	900	900	900	900	1100	23000	15200	8500	7600	10900
26	2700	1300	900	900	900	900	1100	20000	16000	8500	7600	10900
27	2600	1300	900	900	900	900	1200	18000	17000	8800	7300	10600
28	2500	1200	900	900	900	900	1200	16000	16500	9700	7300	10300
29	2400	1200	900	900	900	900	1200	14000	14000	11200	7000	9700
30	2300	1200	900	900	---	900	1300	14000	12400	13200	7000	9700
31	2200	---	900	900	---	900	---	13200	---	15600	6700	---
TOTAL	139100	47400	30600	27900	26100	27900	30040	330800	626800	343700	293300	288900
MEAN	4487	1580	987	900	900	900	1001	10670	20890	11090	9461	9630
MAX	9000	2100	1200	900	900	900	1300	25000	34600	16000	14800	11500
MIN	2200	1200	900	900	900	900	900	1300	12400	8500	6700	6700
CFSM	.68	.24	.15	.14	.14	.14	.15	1.62	3.18	1.69	1.44	1.47
IN.	.79	.27	.17	.16	.15	.16	.17	1.87	3.55	1.95	1.66	1.64
AC-FT	275900	94020	60700	55340	51770	55340	59580	656100	1243000	681700	581800	573000

CAL YR 1975 TOTAL 3118500 MEAN 8544 MAX 64800 MIN 900 CFSM 1.30 IN 17.66 AC-FT 6186000
WTR YR 1976 TOTAL 2212540 MEAN 6045 MAX 34600 MIN 900 CFSM .92 IN 12.53 AC-FT 4389000

NOTE.--No gage-height record Oct. 2 to May 30.

15744500 KOBUK RIVER NEAR KIANA
(National stream-quality accounting network station)

LOCATION.--Lat 66°58'25", long 160°07'51", in NW¼SE¼ sec.11, T.18 N., R.7 W., Hydrologic Unit 19020001, on left bank 5.8 mi (9.3 km) upstream from Portage Creek, 9.7 mi (15.6 km) upstream from Squirrel River, and 9.8 mi (15.8 km) upstream from Kiana.

DRAINAGE AREA.--9,520 mi^2 (24,660 km^2), approximately.

PERIOD OF RECORD.--Water year 1976.

REMARKS.--The recording station was established Sept. 1, 1976. Discharge and temperature data for September will be published next year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)
APR 19...	1630	1010	175	7.1	.0	1	#0	--	110
SEP 01...	1930	8910	173	7.1	14.0	2	#1	#0	87

Non-ideal colony count

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
APR 19...	15	34	6.3	2.5	2.2	117	0	15	11
SEP 01...	13	28	4.2	1.0	.6	90	0	11	11

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
APR 19...	1.0	.1	5.5	117	120	.30	.00	.30	.00
SEP 01...	.6	.1	2.5	112	93	.12	.15	.27	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
SEP 01...	1930	1	1	0	<10	<9	1	10	10	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
SEP 01...	<50	0	50	41	9	380	110	<100	<94	6	20

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP 01...	0	20	.0	.0	.0	0	0	0	100	80	20	2.3

15744500 KOBUK RIVER NEAR KIANA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	ORGANISM NAME	COMMON NAME		CELLS/ML	PER CENT	SAMPLING METHOD
APR 19	1630	CYANOPHYTA	BLUE-GREEN ALGAE				SEDIMENT SAMPLER
		.MYXOPHYCEAE					
		..CHROOCOCCALES	COCCOID				
		...CHROOCOCCACEAE					
		D ....ANACYSTIS			14	100	
		..OSCILLATORIALES	FILAMENTOUS				
		...OSCILLATORIACEAE					
		L ....OSCILLATORIA				0	
				TOTALS	14	100	
		TOTAL			14		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

DATE	TIME	ORGANISM NAME	COMMON NAME		CELLS/ML	PER CENT	SAMPLING METHOD
SEP 1	1930	CHLOROPHYTA	GREEN ALGAE				SEDIMENT SAMPLER
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....ANKISTRODESMUS			4	2	
				TOTALS	4	2	
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE	DIATOMS				
		..PENNALES	PENNATE				
		...FRAGILARIACEAE					
		....H.ARCUS			4	2	
		..CENTRALES	CENTRIC				
		...COSCINODISCACEAE					
		....CYCLOTELLA			16	9	
		..PENNALES	PENNATE				
		...ACHNANTHACEAE					
		D ....ACHNANTHES			28	15	
		...CYMBELLACEAE					
		....CYMBELLA			16	9	
		...DIATOMACEAE					
		....DIATOMA			16	9	
		...FRAGILARIACEAE					
		....SYNEDRA			12	7	
		...NAVICULACEAE	NAVICULOID				
		....NAVICULA			20	11	
		...NITZSCHIACEAE					
		....NITZSCHIA			16	9	
		...TABELLARIACEAE					
		....TABELLARIA			4	2	
				TOTALS	130	73	
		CYANOPHYTA	BLUE-GREEN ALGAE				
		.MYXOPHYCEAE					
		..OSCILLATORIALES	FILAMENTOUS				
		...OSCILLATORIACEAE					
		D ....OSCILLATORIA			48	26	
				TOTALS	48	26	
		TOTAL			180		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP						
01...	1930	8910	14.0	2	49	1180

15798700 NUNAVAK CREEK NEAR BARROW

LOCATION.--Lat 71°15'35", long 156°46'57", in SE¼ sec.18, T.22 N., R.18 W., North Slope Borough, Hydrologic Unit 19010003, 0.7 mi (1.1 km) downstream from Emaiksoun Lake, 1.2 mi (1.9 km) upstream from Nunavak Bay, and 2.3 mi (3.7 km) south of Barrow Post Office.

DRAINAGE AREA.--2.79 mi^2 (7.23 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 (revised) to current year.

GAGE.--Water-stage recorder. Altitude of gage is 19 ft (5.8 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--5 years, 0.81 ft^3/s (0.023 m^3/s), 3.94 in/yr (100 mm/yr), 587 acre-ft/yr (724,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66 cfs (1.87 m^3/s) June 23, 1974, gage height, 2.92 ft (0.890 m), flow over snow; maximum gage height, 4.27 ft (1.301 m) June 19, 1974, backwater from snow and ice; no flow during all winter months and at times during summer months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) June 12, gage height, 3.00 ft (0.914 m), backwater from snow and ice; no flow Oct. 1 to June 11, Sept. 16-30.

REVISIONS.--Records for 1972 water year have been revised to include no flow Oct. 1, 1971 to May 31, 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	2.5	.24	.02
2									0	2.3	.20	.04
3									0	2.2	.19	.12
4									0	2.5	.17	.12
5									0	2.3	.16	.12
6									0	2.0	.15	.13
7									0	1.9	.14	.13
8									0	1.7	.14	.13
9									0	1.5	.13	.13
10									0	1.4	.12	.12
11									0	1.2	.12	.12
12									10	1.1	.11	.10
13									14	.84	.10	.10
14									9.5	.78	.10	.06
15									6.3	.68	.10	.02
16									6.8	.60	.10	0
17									6.3	.56	.10	0
18									8.8	.52	.07	0
19									12	.52	.06	0
20									13	.42	.05	0
21									15	.36	.08	0
22									12	.32	.10	0
23									10	.30	.07	0
24									7.8	.28	.07	0
25									6.8	.27	.06	0
26									5.2	.25	.05	0
27									4.5	.25	.04	0
28									3.4	.24	.04	0
29									2.8	.24	.02	0
30					---				2.3	.25	.02	0
31		---			---		---		---	.26	.02	---
TOTAL	0	0	0	0	0	0	0	0	156.5	30.54	3.12	1.46
MEAN	0	0	0	0	0	0	0	0	5.22	.99	.10	.049
MAX	0	0	0	0	0	0	0	0	15	2.5	.24	.13
MIN	0	0	0	0	0	0	0	0	0	.24	.02	0
CFSM	0	0	0	0	0	0	0	0	1.87	.35	.04	.02
IN.	0	0	0	0	0	0	0	0	2.09	.41	.04	.02
AC-FT	0	0	0	0	0	0	0	0	310	61	6.2	2.9

CAL YR 1975	TOTAL 206.95	MEAN .57	MAX 20	MIN 0	CFSM .20	IN 2.76	AC-FT 410
WTR YR 1976	TOTAL 191.62	MEAN .52	MAX 15	MIN 0	CFSM .19	IN 2.55	AC-FT 380

NOTE.--No gage-height record Oct. 1 to June 12.

15798700 NUNAVAK CREEK NEAR BARROW--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73 and 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUN							
13...	1100	6.9	37	5.5	2.0	4	23
16...	2130	6.8	175	6.3	8.0	24	19
JUL							
06...	1030	1.8	145	6.3	7.5	27	22

15896000 KUPARUK RIVER NEAR DEADHORSE
(National stream-quality accounting network station)

LOCATION.--Lat 70°16'54", long 148°57'35", in NE¼ sec.25, T.11 N., R.12 E., North Slope Borough, Hydrologic Unit 19010001, near right bank, 1.8 mi (2.9 km) northeast of SE Eileen State No. 1, 2.1 mi (3.4 km) south of Rivers Camp Service City, 10 mi (16 km) upstream from mouth on Gwyder Bay, and 13 mi (21 km) northwest of Deadhorse.

DRAINAGE AREA.--3,130 mi² (8,107 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by private engineering firm).

REMARKS.--Water-discharge records estimated for period of no gage-height record prior to June 5 and fair thereafter. Discharges of less than 20 ft³/s (0.6 m³/s) may be discontinuous as the flow probably varies significantly along the main stem of the river during the winter due to the formation of aufeis in the vicinity of springs. Flow may cease at other points.

AVERAGE DISCHARGE.--5 years, 1,234 ft³/s (34.95 m³/s), 5.35 in/yr (136 mm/yr), 894,000 acre-ft/yr (1.10 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82,000 ft³/s (2,320 m³/s) June 6 or 7, 1973, gage height, 36.7 ft (11.19 m); no flow Mar. 1 to June 3, 1975 and Dec. 6 to June 2, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) June 15, gage height, 35.02 ft (10.674 m); no flow Dec. 6 to June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	1.5	.10						0	7650	315	158
2	150	1.3	.10						0	6420	310	155
3	130	1.1	.10						500	6020	315	152
4	110	1.0	.10						4000	6020	300	164
5	95	.90	.10						8000	5700	290	164
6	85	.80	0						9600	5020	281	170
7	90	.70	0						13000	4100	263	164
8	80	.60	0						20000	3310	245	174
9	65	.50	0						15000	2630	237	236
10	55	.40	0						11000	2430	233	300
11	45	.30	0						10000	2400	225	310
12	40	.30	0						14000	2010	209	315
13	35	.20	0						20000	1630	198	315
14	30	.20	0						34400	1440	198	320
15	25	.20	0						51200	1130	195	325
16	20	.10	0						47300	956	188	315
17	17	.10	0						33400	820	177	300
18	15	.10	0						23800	736	174	281
19	12	.10	0						16500	628	167	278
20	10	.10	0						14700	564	170	258
21	8.0	.10	0						14200	533	180	245
22	7.0	.10	0						12400	498	170	233
23	6.0	.10	0						10000	456	188	229
24	5.0	.10	0						9350	449	180	272
25	4.5	.10	0						8500	407	177	305
26	4.0	.10	0						7500	382	174	340
27	3.5	.10	0						7060	364	174	320
28	3.0	.10	0						7200	340	170	281
29	2.5	.10	0						9150	335	167	250
30	2.0	.10	0		---				9500	346	164	200
31	1.8	---	0		---		---		---	325	161	---
TOTAL	1336.3	11.50	.50	0	0	0	0	0	441260	66049	6595	7529
MEAN	43.1	.38	.016	0	0	0	0	0	14710	2131	213	251
MAX	180	1.5	.10	0	0	0	0	0	51200	7650	315	340
MIN	1.8	.10	0	0	0	0	0	0	0	325	161	152
CFSM	.01	0	0	0	0	0	0	0	4.70	.68	.07	.08
IN.	.02	.0001	0	0	0	0	0	0	5.24	.78	.08	.09
AC-FT	2650	23	1.0	0	0	0	0	0	875200	131000	13080	14930

CAL YR 1975 TOTAL 301123.60 MEAN 825 MAX 20000 MIN 0 CFSM .26 IN 3.58 AC-FT 597300
WTR YR 1976 TOTAL 522781.30 MEAN 1428 MAX 51200 MIN 0 CFSM .46 IN 6.21 AC-FT 1037000

15896000 KUPARUK RIVER NEAR DEADHORSE--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to September 1971, June to September 1972, July to September 1976.

INSTRUMENTATION.--Temperature recorder operated occasionally since June 23, 1971.

REMARKS.--Temperature recorder started July 23. The river is frozen from October through May.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 15.5°C July 9, 10, 1971; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 15.0°C Aug. 1, 2; minimum, 0.0°C during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)
DEC 03...	1200	.10	270	7.7	.0	1	--	--	140
FEB 1/ 06...	1130	.00	320	7.3	.0	0	--	--	160
JUN 12...	1630	14400	29	6.4	.5	6	#1	#8	18
JUL 23...	1745	459	98	7.1	12.5	0	#0	#0	58
AUG 23...	1600	185	130	7.8	8.5	1	#0	#0	76
SEP 28...	1500	291	105	6.8	.5	1	--	--	61

# Non-ideal colony count.

1/ Sample collected in pool (under ice) under no flow conditions.

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC 03...	6	49	4.7	3.8	.9	169	0	5.4	7.3
FEB 06...	0	54	5.5	4.7	.9	203	0	16	3.3
JUN 12...	6	5.7	.8	.4	.8	15	0	9.6	6.6
JUL 23...	1	20	2.0	1.3	.4	70	0	8.9	2.9
AUG 23...	0	26	2.6	1.9	.4	96	0	2.4	6.3
SEP 28...	0	21	2.0	1.9	.3	79	0	20	4.7

15896000 KUPARUK RIVER NEAR DEADHORSE.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 03...	1.6	.1	2.4	153	153	.41	.49	.90	.00
FEB 06...	2.2	.1	3.0	211	174	.42	.55	.97	.01
JUN 12...	1.2	.1	.7	35	24	.00	.53	.53	.04
JUL 23...	.8	.1	.9	73	63	.01	.32	.33	.00
AUG 23...	1.5	.1	.9	86	87	.10	--	--	.00
SEP 28...	.5	.1	1.2	67	71	.10	.16	.26	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
DEC 03...	1200	0	0	0	<10	<10	0	0	0	0	<50
JUN 12...	1630	1	0	1	<10	<9	1	0	0	10	<50
JUL 23...	1745	1	0	1	<10	<10	0	0	0	10	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC 03...	<50	0	<10	<7	3	40	30	<100	<99	1	30
JUN 12...	<50	0	<10	<5	5	1200	220	<100	<97	3	70
JUL 23...	<50	0	<10	<9	1	90	70	<100	<98	2	10

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC 03...	30	0	.6	.1	.5	0	0	0	20	20	2
JUN 12...	30	40	.2	.2	.0	0	0	0	10	0	10
JUL 23...	10	0	.0	.0	.0	0	0	0	20	20	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 03...	1200	--	4	--	--	--	--	--
FEB 06...	1130	--	6	--	--	--	--	--
JUN 12...	1630	--	1800	--	--	--	--	16
JUL 23...	1745	--	2200	--	--	--	--	--
AUG 23...	1600	31	370	2.30	4.30	.030	.260	--
SEP 28...	1500	--	15	--	--	--	--	--

15896000 KUPARUK RIVER NEAR DEADHORSE.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	SAMPLING METHOD
DEC 3	1200		CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
			.CHLOROPHYCEAE				
			..VOLVOCALES				
			...PHACOTACEAE				
		L	....PTEROMONAS			0	
			CHRYSOPHYTA				
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...NITZSCHIACEAE				
		D	....NITZSCHIA		4	100	
				TOTALS	4	100	
			TOTAL		4		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED

DATE	TIME		ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	SAMPLING METHOD
FEB 6	1130		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...NITZSCHIACEAE				
		D	....NITZSCHIA		3	50	
				TOTALS	3	50	
			.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
			..CHRYSOMONADALES				
			...OCHROMONADACEAE				
		D	....DINOBRYON		3	50	
				TOTALS	3	50	
			TOTAL		6		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

DATE	TIME		ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	SAMPLING METHOD
JUN 12	1630		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...ACHNANTHACEAE				
		D	....ACHNANTHES		560	31	
			...CYMBELLACEAE				
			....CYMBELLA		200	11	
			...FRAGILARIACEAE				
			....FRAGILARIA		100	6	
			....SYNEDRA		100	6	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		150	8	
			....PINNULARIA		50	3	
			....STAURONEIS		50	3	
			...NITZSCHIACEAE				
			....NITZSCHIA		100	6	
			...SURIRELLACEAE				
			....SURIRELLA		50	3	
			...TABELLARIACEAE				
			....TABELLARIA		150	8	
				TOTALS	1,500	85	
			CYANOPHYTA	BLUE-GREEN ALGAE			
			.MYXOPHYCEAE				
			..OSCILLATORIALES	FILAMENTOUS			
			...OSCILLATORIACEAE				
		D	....OSCILLATORIA		300	17	
				TOTALS	300	17	
			TOTAL		1,800		

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

15896000 KUPARUK RIVER NEAR DEADHORSE.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME		_ORGANISM__NAME_	_COMMON__NAME_	CELLS/ML	PER_CENT	SAMPLING METHOD
JUL 23	1745		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...EUNOTIACEAE				
			....EUNOTIA		12	1	
			...NITZSCHIACEAE				
			....NITZSCHIA		62	3	
				TOTALS	75	4	
			CYANOPHYTA	BLUE-GREEN ALGAE			
			.MYXOPHYCEAE				
			..CHROOCOCCALES	COCCOID			
			...CHROOCOCCACEAE				
			....AGMENELLUM		150	7	
			..OSCILLATORIALES	FILAMENTOUS			
			...OSCILLATORIACEAE				
		D	....OSCILLATORIA		1,900	90	
				TOTALS	2,100	97	
			TOTAL		2,200		
			NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%				
AUG 23	1600		CHRYSOPHYTA				SEDIMENT SAMPLER
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
			....H.ARCUS		5	1	
			...ACHNANTHACEAE				
			....ACHNANTHES		47	13	
			...CYMBELLACEAE				
			....CYMBELLA		5	1	
			...DIATOMACEAE				
		D	....DIATOMA		84	23	
			...NAVICULACEAE	NAVICULOID			
			....NAVICULA		10	3	
			....NEIDIUM		26	7	
				TOTALS	180	48	
			CYANOPHYTA	BLUE-GREEN ALGAE			
			.MYXOPHYCEAE				
			..OSCILLATORIALES	FILAMENTOUS			
			...OSCILLATORIACEAE				
		D	....OSCILLATORIA		190	51	
				TOTALS	190	51	
			EUGLENOPHYTA	EUGLENOIDS			
			.CRYPTOPHYCEAE	CRYPTOMONADS			
			..CRYPTOMONIDALES				
			...CRYPTOMONODACEAE				
			....CRYPTOMONAS		5	1	
				TOTALS	5	1	
			TOTAL		370		
			NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%				
SEP 28	1500		CHLOROPHYTA	GREEN ALGAE			SEDIMENT SAMPLER
			.CHLOROPHYCEAE				
			..ZYGNEMATALES				
			...DESMIDIACEAE	PLACODERM DESMIDS			
		D	....COSMARIUM		3	20	
				TOTALS	3	20	
			CHRYSOPHYTA				
			.BACILLARIOPHYCEAE	DIATOMS			
			..PENNALES	PENNATE			
			...FRAGILARIACEAE				
		D	....ASTERIONELLA		3	20	
		D	....SYNEDRA		3	20	
			...NAVICULACEAE	NAVICULOID			
		D	....NAVICULA		3	20	
				TOTALS	9	60	
			.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
			..CHRYSOMONADALES				
			...OCHROMONADACEAE				
		D	....DINOBRYON		3	20	
				TOTALS	3	20	
			TOTAL		15		
			NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%				

15896000 KUPARUK RIVER NEAR DEADHORSE.--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN						
06...	1100	9880	--	--	100	2670
08...	0950	20500	--	--	221	12200
10...	1000	11600	--	--	48	1500
11...	1430	9890	--	--	32	854
12...	1630	14400	.5	6	90	3500
14...	1530	40200	--	--	336	36500
JUL						
23...	1745	459	12.5	0	1	1.2
AUG						
23...	1600	185	8.5	1	0	.00

TEMPERATURE (DEG. C) OF WATER, JULY TO SEPTEMBER 1976

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1							---	---	15.0	13.5	8.0	7.0
2							---	---	15.0	14.0	7.0	6.5
3							---	---	14.5	13.5	6.5	6.0
4							---	---	14.0	13.0	6.0	5.0
5							---	---	13.0	12.0	5.0	3.5
6							---	---	12.0	11.5	5.5	4.5
7							---	---	11.5	9.0	5.5	5.0
8							---	---	9.0	7.5	5.5	5.0
9							---	---	8.0	7.0	5.0	4.5
10							---	---	8.5	7.0	4.5	4.5
11							---	---	8.5	7.0	4.5	3.5
12							---	---	7.0	6.5	4.0	3.5
13							---	---	6.5	5.5	3.5	3.0
14							---	---	9.0	6.0	3.5	3.5
15							---	---	10.5	8.0	3.5	3.5
16							---	---	10.5	10.0	3.5	3.0
17							---	---	11.0	10.0	3.5	3.0
18							---	---	11.0	10.0	3.0	2.0
19							---	---	10.0	9.0	2.0	2.0
20							---	---	9.0	8.0	2.0	2.0
21							---	---	9.0	8.5	2.0	1.0
22							---	---	9.0	8.0	2.5	2.0
23							12.5	12.0	9.0	8.5	2.5	2.0
24							12.5	11.5	9.0	8.0	2.0	1.5
25							11.5	10.5	9.5	7.5	1.5	1.0
26							11.0	9.0	9.0	8.5	1.0	1.0
27							9.5	8.5	8.5	7.5	1.0	1.0
28							12.0	9.0	8.5	7.5	1.0	0.5
29							13.5	12.0	8.5	8.0	---	---
30							14.0	13.0	8.5	7.0	---	---
31							14.5	13.0	8.5	7.5	---	---
MONTH							---	---	15.0	5.5	8.0	0.5

15896700 PUTULIGAYUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16'04", long 148°37'36", in NE¼ sec.32, T.11 N., R.14 E., North Slope Borough, Hydrologic Unit 19010001, at midchannel 200 ft (61 m) upstream from culvert causeway, 0.2 mi (0.3 km) downstream from unnamed tributary, 6.2 mi (10.0 km) northwest of Deadhorse, and 7.3 mi (11.7 km) upstream from mouth on Prudhoe Bay.

DRAINAGE AREA.--176 mi^2 (456 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by private engineering firm). Prior to June 4, 1972 on right bank 150 ft (46 m) downstream at same datum.

REMARKS.--Water-discharge records estimated for period of no gage-height record prior to June 6 and fair thereafter.

AVERAGE DISCHARGE.--6 years, 40.0 ft^3/s (1.133 m^3/s), 3.09 in/yr (78 mm/yr), 28,980 acre-ft/yr (35.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,980 ft^3/s (141 m^3/s) June 6, 1971, gage height, 24.50 ft (7.468 m), at site then in use; no flow during winter periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,130 ft^3/s (88.6 m^3/s) June 17, gage height, 19.85 ft (6.050 m), no flow Oct. 11 to June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80								0	247	5.6	1.9
2	.60								0	215	4.6	1.9
3	.50								0	184	4.2	2.1
4	.40								0	154	3.5	2.3
5	.30								0	139	3.3	2.5
6	.30								7.0	120	3.3	2.3
7	.20								8.0	108	3.1	2.5
8	.10								9.0	93	2.7	2.1
9	.10								10	82	2.5	2.5
10	.10								15	74	2.5	2.7
11	0								35	68	2.5	2.5
12	0								100	61	2.3	2.9
13	0								300	54	2.3	2.5
14	0								600	48	2.3	2.3
15	0								1100	42	2.5	2.3
16	0								1500	36	2.7	2.5
17	0								2500	34	2.7	2.5
18	0								2670	30	2.9	2.3
19	0								2070	26	2.9	1.9
20	0								1640	24	2.7	2.3
21	0								1290	21	2.9	2.1
22	0								989	20	2.9	2.1
23	0								792	18	2.7	1.7
24	0								630	15	2.5	1.7
25	0								500	13	2.5	1.7
26	0								440	11	2.3	1.5
27	0								400	10	2.1	1.5
28	0								385	7.5	2.1	1.9
29	0								342	6.6	2.1	1.5
30	0				---				295	7.0	1.9	1.0
31	0	---			---		---		---	6.6	1.9	---
TOTAL	3.40	0	0	0	0	0	0	0	18627.0	1974.7	87.0	63.5
MEAN	.11	0	0	0	0	0	0	0	621	63.7	2.81	2.12
MAX	.80	0	0	0	0	0	0	0	2670	247	5.6	2.9
MIN	0	0	0	0	0	0	0	0	0	6.6	1.9	1.0
CFSM	0	0	0	0	0	0	0	0	3.53	.36	.02	.01
IN.	.0007	0	0	0	0	0	0	0	3.94	.42	.02	.01
AC-FT	6.7	0	0	0	0	0	0	0	36950	3920	173	126

CAL YR 1975 TOTAL 12302.50 MEAN 33.7 MAX 1600 MIN 0 CFSM .19 IN 2.60 AC-FT 24400
WTR YR 1976 TOTAL 20755.60 MEAN 56.7 MAX 2670 MIN 0 CFSM .32 IN 4.39 AC-FT 41170

15896700 PUTULIGAYUK RIVER NEAR DEADHORSE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to September 1976.

INSTRUMENTATION.--Water temperature recorder since June 14, 1976.

REMARKS.--The river is frozen from October through May.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 19°C Aug. 1; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
AUG							
23...	1400	2.6	250	7.9	9.5	158	3.2

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
10...	1130	15	1	.04

TEMPERATURE (DEG. C) OF WATER, JUNE TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	11.0	10.0	19.0	13.0	7.0	5.5
2					---	---	10.5	9.5	17.0	12.0	6.0	4.0
3					---	---	11.0	9.5	17.5	11.5	5.5	4.5
4					---	---	11.5	9.0	14.5	12.0	5.5	3.0
5					---	---	13.0	11.0	15.5	11.0	8.0	1.0
6					---	---	14.0	11.5	14.0	11.0	8.5	3.0
7					---	---	13.0	11.0	11.5	8.0	7.0	3.0
8					---	---	11.5	9.0	10.5	6.0	4.0	2.5
9					---	---	9.5	7.0	8.0	5.0	4.5	3.0
10					---	---	8.0	5.5	12.0	5.5	4.0	3.0
11					---	---	6.0	5.0	9.5	6.0	5.5	2.0
12					---	---	7.0	5.0	7.0	5.0	6.5	1.5
13					---	---	10.5	6.0	8.5	3.5	7.5	1.0
14					0.0	0.0	12.0	8.0	13.5	5.5	3.0	1.5
15					0.0	0.0	11.0	8.0	16.5	6.0	3.0	2.0
16					1.5	0.0	10.0	6.5	13.0	10.0	2.5	1.5
17					2.0	1.0	13.0	7.5	15.5	10.0	5.0	1.5
18					2.5	1.0	15.5	10.5	15.0	9.5	2.0	0.5
19					3.5	2.5	17.5	13.5	11.5	7.0	2.0	0.5
20					7.5	3.5	17.5	14.5	10.5	5.5	2.0	1.0
21					8.0	7.0	16.0	12.0	9.0	7.0	8.0	0.5
22					8.0	7.0	15.5	12.0	12.0	6.5	3.5	2.0
23					10.5	7.5	14.0	10.5	10.0	6.5	2.0	1.0
24					13.5	10.5	14.0	10.5	10.5	6.0	1.5	1.0
25					13.5	9.5	12.5	9.0	12.5	5.5	1.0	0.5
26					11.0	8.5	10.5	7.5	10.5	6.0	2.0	0.5
27					11.0	8.5	12.0	7.0	11.5	5.0	2.5	0.5
28					8.5	7.0	16.5	8.0	12.5	5.0	0.5	0.0
29					10.0	8.0	18.5	12.0	8.0	6.0	---	---
30					11.0	9.0	18.0	13.0	12.0	4.5	---	---
31					---	---	18.0	13.0	8.0	5.5	---	---
MONTH					---	---	18.5	5.0	19.0	3.5	8.5	0.0
YEAR	19.0	0.0										

15910000 SAGAVANIRKTOK RIVER NEAR SAGWON

LOCATION.--Lat 69°05'24", long 148°45'34", North Slope Borough, Hydrologic Unit 19010001, on right bank 0.6 mi (1.0 km) downstream from Lupine River, 20 mi (32 km) south of Sagwon, and 33.5 mi (53.9 km) upstream from Ivishak River.

DRAINAGE AREA.--2,208 mi² (5,719 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (305 m), from topographic map.

REMARKS.--Records estimated for period of no gage-height record prior to June 16 and fair thereafter. Discharges of less than 20 ft³/s (0.6 m³/s) may be discontinuous as the flow probably varies significantly along the main stem of the river during the winter due to the formation of aufeis in the vicinity of springs. Flow may cease at other points.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s (818 m³/s) Aug. 19, 1974, gage height, 16.47 ft (5.020 m), from rating curve extended above 8,200 ft³/s (230 m³/s) on the basis of slope-area measurements at gage heights 14.6 ft (4.45 m) and 18.4 ft (5.61 m); maximum gage height, 17.44 ft (5.316 m) in late May 1975, from floodmarks, backwater from ice; minimum daily discharge, 1.0 ft³/s (0.03 m³/s) Jan. 21 to Apr. 29, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1969 reached a stage of about 18.4 ft (5.61 m), discharge 34,900 ft³/s (988 m³/s) from slope-area measurement of peak flow. Maximum evident flood discharge about 62,000 ft³/s (1,800 m³/s) from slope-area estimate.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,700 ft³/s (530 m³/s) June 5, gage height, 15.20 ft (4.633 m), from floodmarks, from rating curve extended as explained above; minimum daily, 1.0 ft³/s (0.03 m³/s) Jan. 21 to Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	250	45	2.0	1.0	1.0	1.0	20	2000	3780	5660	2090
2	960	240	40	2.0	1.0	1.0	1.0	25	4000	3320	4520	2180
3	940	235	35	2.0	1.0	1.0	1.0	30	7000	2820	3860	2140
4	900	230	30	2.0	1.0	1.0	1.0	50	9700	2720	3820	2180
5	860	225	26	2.0	1.0	1.0	1.0	200	11500	3620	3460	2150
6	840	220	22	2.0	1.0	1.0	1.0	900	9800	3000	3060	2050
7	820	210	18	1.5	1.0	1.0	1.0	800	9100	3020	2820	1920
8	800	200	15	1.5	1.0	1.0	1.0	700	8700	3740	2810	1840
9	750	190	12	1.5	1.0	1.0	1.0	500	8500	3300	2620	1880
10	700	180	11	1.5	1.0	1.0	1.0	300	8300	3300	2460	1860
11	650	170	10	1.5	1.0	1.0	1.0	250	8100	3960	2400	1830
12	600	160	9.0	1.5	1.0	1.0	1.0	230	8000	4750	2280	1820
13	550	150	8.0	1.5	1.0	1.0	1.0	220	7800	6890	2180	1800
14	525	140	7.0	1.5	1.0	1.0	1.0	230	7600	6560	2250	1700
15	500	130	6.0	1.5	1.0	1.0	1.0	250	7400	5600	2270	1600
16	475	120	5.5	1.5	1.0	1.0	1.0	280	7300	3260	2260	1550
17	450	110	5.0	1.5	1.0	1.0	1.0	300	7500	5900	2720	1500
18	425	100	4.5	1.5	1.0	1.0	1.0	280	7010	5420	3080	1450
19	400	90	4.0	1.5	1.0	1.0	1.0	260	7420	5420	3170	1400
20	380	85	3.5	1.5	1.0	1.0	1.0	240	7380	4520	2840	1350
21	360	80	3.5	1.0	1.0	1.0	1.0	220	6290	4060	2520	1300
22	350	75	3.0	1.0	1.0	1.0	1.0	210	7180	4400	2690	1250
23	340	70	3.0	1.0	1.0	1.0	1.0	210	6500	4700	2420	1200
24	330	65	3.0	1.0	1.0	1.0	1.0	220	5990	4720	2220	1150
25	320	62	3.0	1.0	1.0	1.0	1.0	250	7820	4600	2100	1300
26	310	59	2.5	1.0	1.0	1.0	1.0	300	7900	4920	2030	1400
27	300	56	2.5	1.0	1.0	1.0	1.0	350	6680	4480	1940	1300
28	290	53	2.5	1.0	1.0	1.0	1.0	330	9380	3820	1880	1200
29	280	50	2.5	1.0	1.0	1.0	1.0	310	6200	4200	1840	1100
30	270	48	2.5	1.0	---	1.0	10	400	4220	7250	1870	1000
31	260	---	2.5	1.0	---	1.0	---	800	---	8620	2050	---
TOTAL	16935	4053	347.0	44.0	29.0	31.0	39.0	9665	222270	140670	84100	48490
MEAN	546	135	11.2	1.42	1.00	1.00	1.30	312	7409	4538	2713	1616
MAX	1000	250	45	2.0	1.0	1.0	10	900	11500	8620	5660	2180
MIN	260	48	2.5	1.0	1.0	1.0	1.0	20	2000	2720	1840	1000
CFSM	.25	.06	.005	0	0	0	0	.14	3.36	2.06	1.23	.73
IN.	.29	.07	.006	.0007	.0005	.0005	.0007	.16	3.74	2.37	1.42	.82
AC-FT	33590	8040	688	87	58	61	77	19170	440900	279000	166800	96180

CAL YR 1975 TOTAL 535355.6 MEAN 1467 MAX 7400 MIN 1.2 CFSM .66 IN 9.02 AC-FT 1062000
WTR YR 1976 TOTAL 526673.0 MEAN 1439 MAX 11500 MIN 1.0 CFSM .65 IN 8.87 AC-FT 1045000

15910000 SAGAVANIRKTOK RIVER NEAR SAGWON--Continued

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1969-72, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
JUN 16...	1700	6700	145	8.0	8.5

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN 16...	1700	6700	8.5	139	2520

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in flood-flow analyses. In addition, discharge measurements are made at other sites not included in the partial-record program. These others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in one table, and discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The data of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		Southeast Alaska					
15054500	Bessie Creek near Auke Bay	Lat 58°35'30", long 134°54'00", in SE¼ sec.7, T.38 S., R.63 E., Juneau Borough, 800 ft upstream from mouth of Yankee Cove on eastern shore of Lynn Canal, and 16.5 mi northwest of Auke Bay.	1.35	1966-76	9-15-76	6.94	160
15057500	William Henry Creek near Auke Bay	Lat 58°44'46", long 135°14'25", about 600 ft upstream from mouth on western shore of Lynn Canal about 2 mi north of entrance to William Henry Bay, and 20.5 mi northwest of Auke Bay.	1.56	1966-76	9-15-76	14.32	425
15081490	Yatuk Creek near Klawock	Lat 55°53'57", long 133°08'42", on Prince of Wales Island, in Tongass National Forest, 0.4 mi upstream from mouth of Naukati Bay, and 24 mi north of Klawock.	5.80	1971-76	9- 9-76	17.77	750
15081890	Natzuhini Creek near Hydaburg	Lat 55°17'08", long 132°49'18", on Prince of Wales Island, in Tongass National Forest, 0.7 mi upstream from mouth of Natzuhini Bay, and 5.5 mi north of Hydaburg.	9.10	1971-76	1-30-76	21.16	2,500
15086900	Red Creek near Point Baker	Lat 56°15'36", long 133°19'34", on Prince of Wales Island, in Tongass National Forest, 0.2 mi upstream from Red Bay tideflats, and 13 mi southeast of Point Baker.	11.2	1971-76	1-31-76	19.39	1,530
15087500	Twin Creek near Petersburg	Lat 56°43'13", long 132°55'33", in NE¼NW¼ sec.35, T.59 S., R.79 E., on Mitkof Island, at Mitkof highway bridge 600ft upstream from mouth of Wrangell Narrows, and 6.5 mi south of Petersburg.	3.82	1966-76	1-30-76	10.69	510
15087570	Hamilton Creek near Kake	Lat 56°52'21", long 133°40'30", in SE¼NE¼ sec.1, T.58 S., R.74 E., on Kupreanof Island, in Tongass National Forest, 2.9 mi upstream from mouth at Hamilton Bay, and 9.5 mi southeast of Kake.	65.0	1972-76	1-30-76	14.97	8,500
15087585	Twelvemile Creek near Petersburg	Lat 56°52'21", long 133°04'05", in NW¼SE¼ sec.31, T.56 S., R.77 E., on Kupreanof Island, Lindenburg Peninsula, in Tongass National Forest, 0.8 mi upstream from mouth at Fredrick Sound, and 10 mi northwest of Petersburg.	9.39	1972-76	9- 9-76	10.83	1,320
15087595	Kadake Creek near Kake	Lat 56°46'45", long 134°00'42", in W½SW¼ sec.1, T.59 S., R.72 E., on Kuiu Island, in Tongass National Forest, 1.5 mi upstream from mouth at Kadake Bay, and 15 mi south of Kake.	43.6	1972-76	1976	(a)	(a)
15101600	Wheeler Creek near Douglas	Lat 58°10'49", long 134°46'08", in SE¼NE¼ sec.27, T.44 S., R.65 E., on Admiralty Island, in Tongass National Forest, on left bank, 2.4 mi upstream from mouth at Game Cove in Chatham Strait and 22 mi southwest of Douglas.	57.1	1971-76	1976	(a)	(a)
15101800	Fishery Creek near Angoon	Lat 57°45'45", long 134°42'21", on west shore of Admiralty Island in Tongass National Forest, approximately 0.5 mi upstream from mouth, and 19 mi northwest of Angoon.	54.3	1971-76	5- 3-76	29.83	7,800

a Unknown.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		Southeast Alaska--Continued					
15102350	North Arm Creek near Angoon	Lat 57°23'48", long 134°19'24", in SE¼NW¼ sec.3, T.52 S., R.69 E., on Admiralty Island, in Tongass National Forest, 1,300 ft upstream from the mouth of the North Arm of Hood Bay, and 12 mi southeast of Angoon.	8.64	1971-76	5- 3-76	18.20	780
15108250	Game Creek near Hoonah	Lat 58°03'02", long 135°29'21", in SE¼SE¼ sec.18, T.44 S., R.61 E., in Tongass National Forest, 2 mi upstream from mouth, and 4.5 mi southwest of Hoonah.	42.8	1970-76	9-15-76	13.37	6,300
15108290	Gos Creek near Elfin Cove	Lat 58°11'49", long 136°03'07", in NW¼SW¼ sec.26, T.42 S., R.58 E., on Chichagof Island, in Tongass National Forest, 0.5 mi upstream from mouth behind Goose Island in Mud Bay, and 11 mi east of Elfin Cove.	16.7	1973-76	5- 3-76	44.54	4,100
		South-central Alaska					
15198500	Station Creek near Mentasta	Lat 62°56'12", long 143°39'54", SW¼ sec.2, T.13 N., R.9 E., on right bank, 0.3 mi upstream from wooden bridge on Mentasta Village Road, 1 mi west of Slana-Tok Highway, and 4 mi east of Mentasta.	15.3	1970-76	7- -76	14.69	e240
15199000	Copper River Tributary near Slana	Lat 62°43'03", long 144°14'21", SW¼ sec.23, T.11 N., R.6 E., on right bank 20 ft upstream from culvert at mi 51.8 on the Slana-Tok Highway, and 9 mi west of Slana.	4.32	1963-76	8- -76	11.28	40
15200100	Dry Creek near Glennallen	Lat 62°08'49", long 145°28'31", NE¼ sec.7, T.4 N., on right bank at mi 119 Richardson Highway, and 3.3 mi north of Glennallen.	11.4	1963-76	5- -76	11.50	80
15201100	Little Nelchina River Tributary near Eureka Lodge	Lat 61°59'17", long 147°00'34", Matanuska-Susitna Borough, on right bank at mi 132 Glenn Highway, and 6 mi northeast of Eureka Lodge.	7.81	1964-76	5- 5-76	11.01	55
15208100	Squirrel Creek at Tonsina	Lat 61°40'05", long 145°10'26", in NW¼ sec.26, T.2 S., R.1 E., on right bank 150 ft upstream from highway bridge at mi 79.5 on Richardson Highway, 0.3 mi northeast of Tonsina River bridge, 0.3 mi upstream from mouth, and 0.4 mi north of Tonsina.	70.5	1964-65, #1966-75, 1976-	5- -76	9.04	50
15208200	Rock Creek near Tonsina	Lat 61°45'32", long 145°09'14", in NW¼ sec.25, T.1 S., R.1 E., on right bank at mi 86.1 on Richardson Highway, and 6.7 mi north of Tonsina Lodge.	14.3	1966-76	6- -76	9.98	70
15209000	Chititu Creek near May Creek	Lat 61°22'12", long 142°40'50", in NW¼ sec.11, T.6 S., R.15 E., on right bank 10 ft below wooden bridge on May Creek-Dan Creek Road, and 2 mi north of May Creek landing strip.	30.9	1973-76	6- -76	5.41	220
15209100	May Creek near May Creek	Lat 61°20'42", long 144°04'00", in SE¼ sec.15, T.6 S., R.15 E., on left bank 100 ft west of the May Creek-Dan Creek Road, and 0.3 mi northwest of the north end of the May Creek landing strip.	10.4	1973-76	6- -76	5.26	37
15211700	Strelna Creek near Chitina	Lat 61°30'40", long 144°04'00", in NE¼ sec.22, T.4 S., R.7 E., 300 ft upstream from timber bridge on Chitina-McCarthy Road, and 13 mi east of Chitina.	23.8	1971-76	6- -76	9.77	190
15211900	O'Brien Creek near Chitina	Lat 61°28'59", long 144°27'23", in NW¼NW¼ sec.35, T.4 S., R.5 E., 100 ft upstream from timber bridge on trail to Copper River gaging station, 0.1 mi upstream from mouth at Copper River, and 2.5 mi south of Chitina.	44.8	1970-76	8- -76	3.87	440
15212500	Boulder Creek near Tiekel	Lat 61°20'08", long 145°18'26", on right upstream wingwall at mi 51.4 Richardson Highway, and 0.7 mi north of Tiekel.	9.80	1963-76	7-10-76	8.14	170

# Operated as a continuous-record station.
e Estimated.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft³/s)
		South-central Alaska--Continued					
15236200	Shakespeare Creek at Whittier	Lat 60°46'35", long 148°43'35", NE¼ sec.22, T.8 N., R.4 E., on upstream right wingwall of concrete bridge 0.5 mi upstream from mouth, and 1.8 mi west of the Alaska Railroad terminal building.	3.05	1969-76	8- -75 9- -76	10.92 11.19	n430 460
15237400	Chalmers River near Cordova	Lat 60°13'10", long 147°13'30", in SE¼ sec.32, T.1 N., R.13 E., on Montague Island, 1.2 mi upstream from mouth at Port Chalmers, and 58 mi southwest of Cordova.	6.32	1967-76	9- -76	12.19	2,900
15239500	Fritz Creek near Homer	Lat 59°42'30", long 151°20'35", SW¼ sec.28, T.5 S., R.12 W., Kenai Peninsula Borough, on left bank 200 ft above culvert on east road, and 5 mi northeast of Homer.	10.4	1963-76	9- -76	16.44	150
15239800	Diamond Creek near Homer	Lat 59°40'10", long 151°40'00", in SE¼ sec.9, T.6 S., R.14 W., Kenai Peninsula Borough, on right upstream wingwall of culvert on Sterling Highway, 1.3 mi upstream from mouth at Cook Inlet, and 4.6 mi northwest of Homer.	5.35	1963-76	9- -76	10.87	39
15240500	Cook Inlet Tributary near Ninilchik	Lat 59°58'45", long 151°43'20", Kenai Peninsula Borough, on left upstream culvert wingwall on Sterling Highway, 0.2 mi upstream from mouth at Cook Inlet, and 5.4 mi southwest of Ninilchik.	1.69	1966-76	5-13-76	13.86	140
15243950	Porcupine Creek near Primrose	Lat 60°20'30", long 149°22'15", Kenai Peninsula Borough, on right bank at 18-mi campground road, 0.2 mi upstream from mouth at Kenai Lake, and 0.8 mi west of Primrose.	16.8	1963-76	9-20-76	12.39	1,750
15254000	Crescent Creek near Cooper Landing	Lat 60°29'50", long 149°40'40", Kenai Peninsula Borough, on left bank at bridge on Old Seward-Kenai Highway, 4.2 mi downstream from Crescent Lake, and 4.4 mi east of Cooper Landing.	31.7	#1949-66, 1967-76	9-23-76	11.51	530
15269500	Granite Creek near Portage	Lat 60°43'40", long 149°17'00", Kenai Peninsula Borough, on upstream side of center pier of bridge on Seward-Anchorage Highway, and 12 mi southwest of Portage.	28.2	1967-76	9-23-76	11.33	1,550
15271900	Cub Creek near Hope	Lat 60°52'12", long 149°26'02", Kenai Peninsula Borough, on right wingwall of culvert, on Hope Highway, 0.1 mi upstream from mouth of Sixmile Creek, and 7.7 mi southeast of Hope.	1.80	1965-76	9-22-76	11.82	37
15272530	California Creek near Girdwood	Lat 60°57'53", long 149°08'02", Anchorage Borough, at culverts on Alyeska Highway, 0.2 mi west of Girdwood Post Office, and 2.0 mi northeast of Seward-Anchorage Highway.	6.96	1967-76	9-21-76	19.40	500
15274800	South Branch of South Fork Chester Creek near Anchorage	Lat 61°12'37", long 149°43'57", on line between sec.13 and 24, T.13 N., R.3 W., Anchorage Borough, at Muldoon Road crossing, and 5.4 mi east of Anchorage.	10.8	1967-76	6- -76	10.29	18
15282400	Puritan Creek near Sutton	Lat 61°48'42", long 148°08'01", in NW¼ sec.23, T.20 N., R.7 E., Matanuska-Susitna Borough, on right bank below bridge at mile 89.3 Glenn Highway, and 25.2 mi northeast of Sutton.	8.51	1963-76	6- -76	7.42	28
15283500	Eska Creek near Sutton	Lat 61°43'44", long 148°54'31", in NE¼ sec.21, T.19 N., R.3 E., Matanuska-Susitna Borough, on right bank upstream from old railroad bridge near Eska-Jonesville Road, and 1.5 mi northeast of Sutton.	13.4	1965-69, 1971-76	7-17-76	10.65	100
15285000	Wasilla Creek near Palmer	Lat 61°38'47", long 149°11'45", in SW¼ sec.13, T.18 N., R.1 E., Matanuska-Susitna Borough, on left bank, 60 ft upstream from culvert entrance on Wasilla-Fishhook Road, and 4.1 mi northeast of Palmer.	19.3	1971, 1976	5- -76	9.04	50
15291100	Raft Creek near Denali	Lat 63°03'04", long 147°16'22", in SE¼ sec.36, T.21 S., R.2 E., Matanuska-Susitna Borough, on right bank above culverts at mi 69.2 Denali Highway, and 10.7 mi southeast of Denali.	4.33	1963-76	6- 4-76	11.49	12.5

# Operated as a continuous-record station.
n Not previously published.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft³/s)
		South-central Alaska--Continued					
15292400	Chulitna River near Talkeetna	Lat 62°33'31", long 150°14'02", in SE¼ sec.32, T.29 N., R.5 W., on right bank, 0.5 mi downstream from Anchorage-Fairbanks Highway crossing, 4.5 mi downstream from Troublesome Creek, 16 mi northwest of Talkeetna, and 18 mi upstream from mouth.	2,570	#1958-72, 1973-76	6-11-76	12.87	38,000
15293000	Caswell Creek near Caswell	Lat 61°56'55", long 150°03'14", in SW¼ sec.32, T.22 N., R.4 W., Matanuska-Susitna Borough, above culvert on Anchorage-Fairbanks Highway, and 2.3 mi south of Caswell.	19.6	1963-76	4- -76	10.65	53
15294025	Moose Creek near Talkeetna	Lat 62°19'00", long 150°26'30", Matanuska-Susitna Borough, at bridge on Petersville Road, and 10.5 mi west of Talkeetna.	52.3	1972-76	5-12-76	f12.20	‡813
15297500	Red Cloud Creek Tributary near Kodiak	Lat 57°49'00", long 152°37'20", Kodiak Island Borough, 0.1 mi upstream from mouth, and 8.4 mi northwest of Kodiak.	1.51	1963-76	9- 1-76	*13.40	533
		Southwest Alaska					
15300000	Newhalen River near Iliamna	Lat 59°51'34", long 154°52'24", in NW¼ sec.1, T.4 S., R.33 W., on left bank, 12 mi downstream from Lake Clark (110 mi²), and 8 mi north of Iliamna.	3,478	#1951-67, 1968-76	9- -76	5.77	19,000
15300200	Roadhouse Creek near Iliamna	Lat 59°45'26", long 154°50'49", in SW¼ sec.11, T.5 W., R.32 W., at bridge on Iliamna Road, and 2.1 mi east of Iliamna airport.	20.8	1973-76	6- -76	12.38	77
15302900	Moody Creek at Aleknagik	Lat 59°16'34", long 158°35'42", in SE¼ sec.30, T.10 S., R.55 W., on left bank, 12 ft upstream from culvert entrance, and 500 ft upstream from mouth at Wood River at the Aleknagik Mission.	1.28	1968-76	6- -76	17.91	16
15303010	Silver Salmon Creek near Aleknagik	Lat 59°13'34", long 158°40'21", in NW¼ sec.14, T.11 S., R.56 W., on right bank 4.5 mi upstream from mouth at Wood River, and 4 mi southwest of Aleknagik.	4.46	1964-76	9- -76	8.39	28
		Yukon Alaska					
15305900	Dennison Fork near Tetlin Junction	Lat 63°25'24", long 142°29'00", in SW¼ sec.14, T.19 N., R.15 E., on right bank, 10 ft upstream from culvert at mi 10.7 on the Taylor Highway, and 8.3 mi northeast of Tetlin Junction.	2.93	1963-76	8- -76	10.94	16
15305920	West Fork Tributary near Tetlin Junction	Lat 63°40'03", long 142°16'00", in SW¼ sec.23, T.22 N., R.16 E., on left bank 7 ft upstream from culvert at mi 32 on Taylor Highway, and 26.5 mi northeast of Tetlin Junction.	1.02	1966-76	8- -76	11.12	33
15305950	Taylor Creek near Chicken	Lat 63°54'27", long 142°12'58" (revised), in NW¼ sec.35, T.25 N., R.16 E., on right bank 29 ft upstream from bridge at mi 50.3 on Taylor Highway, and 14.5 mi southwest of Chicken.	38.4	1966-76	7- 9-76	11.35	97
15341900	North Fork King Salmon Creek near Eagle	Lat 64°32'32", long 141°15'00", at mi 135.8 of the Taylor Highway, 1,000 ft upstream from bridge and 18 mi south of Eagle.	18.5	1975-76	7- -76	20.86	(+)
15344000	King Creek near Dome Creek	Lat 64°23'28", 141°24'36", T.6 S., R.32 E., on left bank 100 ft upstream from culvert at mile 119.8 on Taylor Highway, 0.2 mi upstream from mouth at O'Brien Creek, 4.7 mi east of Dome Creek and 29 mi south of Eagle.	5.99	1975-76	5- 1-76	6.76	54

* Backwater.
+ Not determined.
‡ Measurement of peak flow.
# Operated as a continuous-record station.
f Ice effect.

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual Maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		Yukon Alaska--Continued					
15389310	N.F. Chandalar River Tributary near Chandalar Camp	Lat 68°06'09", long 149°31'36", in SE¼NW¼ sec.35, T.15 S., R.11 E., on left bank 0.3 mi downstream from unnamed tributary, 2 mi north of Chandalar Camp.	c8.1	1976	7-30-76	(+)	(+)
15442500	Quartz Creek near Central	Lat 65°37'09", long 144°28'55", in SW¼ sec.7, T.9 N., R.16 E., on left bank, 20 ft upstream from bridge at mi 138.5 on Steese Highway, 1 mi upstream from mouth at Crooked Creek, 10 mi east of Central, and 19 mi southwest of Circle.	17.2	1967, 1970-76	8- -76	22.06	500
15453600	No Name Creek near Stevens Village	Lat 66°07'06", long 150°09'52", in NE¼ sec.19, T.15 N., R.12 W., on left bank 500 ft above bridge on TAPS haul road, and 31 mi west of Stevens Village.	c120	1976-	5- -76	40.65	(+)
15457700	Erickson Creek near Nabesna	Lat 65°34'30", long 148°56'18", in SE¼ sec.26, T.9 N., R.7 W., 100 ft downstream of culvert at mi 12.5 on the TAPS haul road, and 12.5 mi northwest of Livengood.	26.3	1973-76	5- 4-76	17.72	410
15470300	Little Jack Creek near Nabesna	Lat 62°32'47", long 143°19'30", in SE¼ sec.22, T.9 N., R.11 E., on left bank 0.2 mi upstream from wooden bridge on the Nabesna Road, and 15.6 mi northwest of Nabesna.	6.73	1975-76	8- -76	15.42	56
15470330	Chalk Creek near Nabesna	Lat 62°30'19", long 143°09'24", in NE¼ sec.3, T.8 N., R.12 E., on right bank 0.1 mi above wooden bridge on Nabesna Road, and 10.3 mi northwest of Nabesna.	14.8	1975-76	8- -76	16.29	111
15470340	Jack Creek near Nabesna	Lat 66°27'52", long 143°06'18", in NW¼ sec.24, T.8 N., R.12 E., on left bank 0.1 mi above wooden bridge on Nabesna Road, and 7 mi northwest of Nabesna.	115	1975-76	8- -76	(+)	(+)
15471000	Bitters Creek near Northway Junction	Lat 63°09'38", long 142°05'20", in SE¼ sec.13, T.16 N., R.17 E., on left bank 52 ft upstream from culvert at mi 1,280 on the Alaska Highway, 1 mi upstream from mouth at Tanana River, and 13.5 mi northwest of Northway Junction.	15.4	1964-76	7- -76	12.19	146
15471500	Tanana River Tributary near Tetlin Junction	Lat 63°16'45", long 142°30'27", in SE¼ sec.3, T.17 N., R.15 E., on left bank 6 ft upstream from culvert at mi 1,297.8 on the Alaska Highway, and 3.7 mi southeast of Tetlin Junction.	2.43	1965-76	8- -76	11.67	10
15473600	Log Cabin Creek at Log Cabin Inn	Lat 63°01'48", long 143°20'36", on right bank 20 ft upstream from bridge at mi 97.4 on the old section of the Slana-Tok Highway, and 24.9 mi southwest of Tok.	10.7	1965-76	8- -76	10.50	230
15473950	Clearwater Creek near Tok	Lat 63°10'19", long 143°12'03", in NE¼ sec.18, T.16 N., R.11 E., 0.8 mi upstream from culverts at mi 109.5 on the Glenn Highway, and 12.5 mi southwest of Tok.	36.4	1963-76	7- -76	46.60	e300
15476049	Tanana River Tributary near Cathedral Rapids	Lat 63°24'24", long 143°48'28", in SE¼ sec.23, T.19 N., R.8 E., on left bank, 0.3 mi upstream from culvert at mi 1,341 on the Alaska Highway, 0.6 mi upstream from mouth at Tanana River, and 2.5 mi northwest of Cathedral Rapids.	3.09	1964-76	7- -76	14.27	165
15476200	Tanana River Tributary near Dot Lake	Lat 63°41'40", long 144°17'40", in NW¼ sec.17, T.22 N., R.6 E., on left bank 20 ft upstream from culvert at mile 1,369 on the Alaska Hignway, and 7.4 mi west of Dot Lake.	11.0	1964-76	7- -76	11.39	78
15476400	Dry Creek near Dot Lake	Lat 63°41'32", long 144°34'16", in NW¼ sec.24, T.14 S., R.16 E., on piling near left bank, 64 ft above bridge at mi 1,378.1 on the Alaska Highway, 0.6 mi upstream from mouth at Tanana River, and 15.7 mi west of Dot Lake.	57.6	1963-65, #1965-69, 1969-76	6- -76	13.25	690

+ Not determined.
# Operated as a continuous-record station.
c Approximately.
e Estimated.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual Maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		Yukon Alaska--Continued					
15478010	Rock Creek near Paxson	Lat 63°04'16", long 146°06'17", on right bank at mi 24.8 on the Denali Highway, and 18 mi west of Paxson.	50.3	1963-76	6- 4-76	f11.65	e1,000
15478050	McCallum Creek near Paxson	Lat 63°13'27", long 145°38'56", in SW¼ sec.33, T.19 S., R.11 E., on right bank upstream wingwall, 8 ft upstream from bridge, at mi 202.4 on the Richardson Highway, 0.5 mi upstream from mouth at Phelan Creek, and 14.5 mi northwest of Paxson.	15.5	1966-76	8- 8-76	10.73	300
15478500	Ruby Creek near Donnelly	Lat 63°37'52", long 145°53'03", in NE¼ sec.7, T.15 S., R.10 E., on left bank 51 ft upstream from culvert at mi 234.8 on the Richardson Highway, and 2.3 mi south of Donnelly.	5.32	1963-76	7-25-76	12.61	220
15480000	Banner Creek at Richardson	Lat 64°17'24", long 146°20'56", in SW¼ sec.22, T.7 S., R.7 E., Fairbanks North Star Borough, on right bank 55 ft upstream from bridge at mi 295.4 on the Richardson Highway, 0.1 mi upstream from mouth at Tanana River, and 0.4 mi northwest of Richardson.	20.2	1963-76	7- -76	10.56	(+)
15490000	Monument Creek at Chena Hot Springs	Lat 65°03'17", long 146°03'05", in SE¼ sec.26, T.3 N., R.8 E., Fairbanks North Star Borough, on left bank 800 ft from lodge at Chena Hot Springs, 0.4 mi upstream from unnamed tributary, and 1.3 mi upstream from North Fork Chena River.	26.7	1967-76	6- -76	25.79	165
15515800	Seattle Creek near Cantwell	Lat 63°19'32", long 148°14'49", Matanuska-Susitna Borough, on left downstream wingwall of bridge at mi 110.9 on the Denali Highway, 22.4 mi southeast of Cantwell.	36.2	1963-65, #1966-75, 1976	6- 4-76	4.93	388
15515900	Lily Creek near Cantwell	Lat 63°19'54", long 148°16'16", in NW¼ sec.26, T.18 S., R.4 W., Matanuska-Susitna Borough, 300 ft upstream from culvert, at mi 11.9 on the Denali Highway, and 20 mi southeast of Cantwell.	5.63	1965-76	6- -76	22.02	41
15516000	Nenana River near Windy	Lat 63°27'28", long 148°48'11", Matanuska-Susitna Borough, near left bank under bridge on Denali Highway, 0.8 mi upstream from Jack River, 1 mi southeast of Windy railroad station, and 2 mi downstream from Schist Creek.	710	#1950-56, #1958-73, 1974-76	6- -76	5.19	4,460
15516200	Slime Creek near Cantwell	Lat 63°30'34", long 148°48'39", in SE¼ sec.24, T.16 S., R.7 W., on left bank above culvert on the Anchorage-Fairbanks Highway, and 9.1 mi northeast of Cantwell.	6.90	1965-76	8- -75 6- -76	13.55 12.77	215 147
15518200	Rock Creek near Ferry	Lat 64°01'56", long 149°08'40", in SW¼ sec.21, T.10 S., R.8 W., at midchannel 42 ft upstream from culverts on the Anchorage-Fairbanks Highway, 0.3 mi upstream from mouth at Nenana River, and 1.4 mi northwest of Ferry.	8.17	1964-76	1976	(a)	(a)
15518250	Birch Creek near Rex	Lat 64°10'35", long 149°17'26", in SW¼ sec.35, T.8 S., R.9 W., on left bank 20 ft upstream from culvert on the Anchorage-Fairbanks Highway, and 4.2 mi south of Rex.	4.10	1964-76	1976	10.33	102
15519200	Brooks Creek Tributary near Livengood	Lat 65°23'02", long 148°56'12", on right bank 20 ft upstream from culvert at mi 84 on the Elliott Highway, and 15 mi southwest of Livengood.	7.81	1964-76	1976	10.96	96
15520000	Idaho Creek near Miller House	Lat 65°21'13", long 146°09'33", in NW¼ sec.17, T.6 N., R.8 E., Fairbanks North Star Borough, on right bank 100 ft downstream from culverts at mi 79 on the Steese Highway, and 30 mi southwest of Miller House.	5.31	1963-76	8- -76	14.27	59
15541600	Globe Creek near Livengood	Lat 65°17'08", long 148°07'56", 0.1 mi upstream from culverts at mi 38 on the Elliott Highway, 9 mi upstream from mouth at Tatalina River, and 19 mi southeast of Livengood.	23.0	1964-76	5-30-76	15.41	420

+ Not determined.
# Operated as a continuous-record station.
a Unknown.
e Estimated.
f Ice effect.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft³/s)
		Yukon Alaska--Continued					
15564872	Nugget Creek near Wiseman	Lat 67°29'25", long 144°52'20", in NW¼ sec.3, T.31 N., R.10 W., on right bank 300 ft above culvert at the TAPS haulroad, and 8.7 mi northeast of Wiseman.	9.47	1975-76	6- -76	15.93	195
15564884	Prospect Creek near Prospect Camp	Lat 66°46'56", long 150°41'06", in NW¼ sec.31, T.23 N., R.14 W., on right bank 200 ft above bridge on the TAPS haulroad, 0.4 mi below TAPS pipeline crossing, 1.5 mi upstream from mouth at Jim River, and 1.4 mi southeast of Prospect Creek Camp.	110	1975-76	8- -76	5.34	640
15564887	Bonanza Creek Tributary near Prospect Camp	Lat 66°36'52", long 150°41'24", in SE¼ sec.25, T.21 N., R.15 W., on right bank 0.3 mi below culverts on the TAPS haulroad, 3.4 mi upstream from mouth at Bonanza Creek, and 12.6 mi south of Prospect Camp.	11.7	1975-76	7- -76	16.19	31
		Northwest Alaska					
15585000	Goldengate Creek near Nome	Lat 64°26'03", long 165°02'46", in SW¼ sec.15, T.12 S., R.32 W., on right bank 500 ft above culvert on Nome-Council Road, 11 mi southeast of Nome.	1.55	1976	1976	(a)	(a)
15619000	Dexter Creek near Nome	Lat 64°35'11", long 165°16'39", in NE¼ sec.33, T.10 S., R.33 W., on left bank 10 ft above culvert on Nome-Teller Road, 0.2 mi above the Nome River, and 7 mi northeast of Nome.	2.99	1976	1976	(a)	(a)
15625000	Arctic Creek near Nome	Lat 64°38'15", long 165°42'46", in NE¼ sec.8, T.10 S., R.35 W., on right bank, 20 ft upstream from culvert on Nome-Teller Road, 2 mi above Bluff Creek, and 13 mi northwest of Nome.	1.76	1967-76	6- 2-76	b12.10	30
15633000	Washington Creek near Nome	Lat 64°42'52", long 165°49'13", in NW¼ sec.14, T.9 S., R.35 W., on right bank above culvert on Nome-Teller Road, and 19 mi northwest of Nome.	6.34	1964-76	6- 2-76	10.69	74
15668100	Star Creek near Nome	Lat 64°55'40", long 164°57'39", on right bank above culvert at mi 40.5 on Nome-Taylor Road, 0.9 mi above Kruzgamepa River, and 32 mi northeast of Nome.	3.78	1964-76	7- -76	9.74	58
		Arctic Slope Alaska					
15905000	Gailbraith Lake Tributary near Gailbraith	Lat 68°29'30", long 149°30'36", in NE¼ sec.15, T.11 S., R.11 E., 0.4 mi above culvert on the road to Gailbraith Camp, and 2.8 mi northwest of Gailbraith.	7.55	1975-76	9- -75 6- -76	28.72 29.80	e20 e38
15910200	Happy Creek at Happy Valley Camp near Sagwon	Lat 69°08'50", long 148°49'50", North Slope Borough, on right bank at Happy Valley Camp 1 mi upstream from mouth, and 17.5 mi south of Sagwon.	34.5	1972-76	6- 6-76	18.51	1,390

a Unknown.
b Culvert damaged.
e Estimated.

Discharge measurements made at miscellaneous sites during water year 1976.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Southeast Alaska				
/Baily Bay Hot Springs	Spring Creek	Lat 55°58'57", long 131°39'40", in SW¼ sec.9, T.68 S., R.89 E., 5 mi northwest of Bell Island.	--	--	7- 7-76	0.16
/Chief Shakes Hot Springs	Ketili River	Lat 56°43'27", long 132°02'27", in SW¼ sec.28, T.59 S., R.85 E., 22 mi northeast of Wrangell.	--	--	7- 7-76	0.12
Stikine River	Eastern Passage	Lat 56°42'16", long 132°08'30", in NW¼ sec.2, T.60 S., R.84 E., 18.5 mi northeast of Wrangell.	--	--	5- 3-75 8-16-75 10-20-75 6- 3-76	20,700 91,700 36,700 67,500
Klawak River	Klawak Harbor	Lat 55°32'58", long 133°02'40", in SE¼ sec.11, T.73 S., R.81 E., on Prince of Wales Island, and 2 mi east of Klawock.	45.8	1947	9-25-76	108
Hidden Falls Lake outlet	Kasnyku Bay	Lat 57°13'05", long 134°52'16", in NE¼ sec.2, T.54 S., R.66 E., on Baranof Island, and 21 mi northeast of Sitka.	5.34	--	9- 7-76	43.5
		South-Central Alaska				
*15211900 O'Brien Creek	Copper River	Lat 61°28'59", long 144°27'23", in NW¼NW¼ sec.35, T.4 S., R.5 E., 100 ft upstream from timber bridge on trail to Copper River gaging station, 0.1 mi upstream from mouth at Copper River, and 2.5 mi south of Chitina.	44.8	--	5-14-70 7- 8-70 8-18-70 10- 1-70 6- 7-71 6- 9-72 8-16-72 9-29-72 6- 7-73 6-19-74 7-26-74 6-25-75 9- 4-75 4-23-76 7-13-76 8-24-76	93 231 74 36 137 192 111 36 101 80 69 291 46 4.[illegible] 153 58
#Canyon Slough	Lowe River	Lat 61°03'11", long 146°04'39", in SW¼ sec.27, T.9 S., R.5 W., 0.2 mi upstream from unnamed tributary, and 8.5 mi east of Valdez.	--	--	4- 7-76	1.0
#Canyon Slough	do	Lat 61°03'14", long 146°04'58", in SW¼ sec.27, T.9 S., R.5 W., 20 ft upstream from unnamed tributary, and 8.5 mi east of Valdez.	--	--	4- 8-76	4.5
#Canyon Slough	do	Lat 61°03'13", long 146°05'20", in SW¼ sec.27, T.9 S., R.5 W., 0.2 mi downstream from unnamed tributary, and 8.5 mi east of Valdez.	--	--	4- 8-76	14
Unnamed tributary	Cannery Lake	Lat 61°01'28", long 147°29'48", in SE¼SE¼ sec.21, T.11 N., R.11 E., 300 ft above mouth, and 28 mi northwest of Ellamar.	--	--	8-14-76	20
#Cannery Creek	Unakwik Inlet	Lat 61°01'08", long 147°30'29", in SW¼NE¼ sec.28, T.11 N., R.11 E., at lake outlet, 28 mi northwest of Ellamar	--	--	2-18-76 3-12-76 8-14-76	1.4 2.7 19
*15237400 Chalmers River	Port Chalmers	Lat 60°13'10", long 147°13'30", in SE¼ sec.32, T.1 N., R.13 E., on Montague Island, 1.2 mi upstream from mouth at Port Chalmers, and 58 mi southwest of Cordova.	6.32	1967-75	10-20-75 7- 7-76	52 252
15238000 Lost Creek	Salmon River	Lat 60°11'50", long 149°22'30", in NW¼ sec.12, T.1 N., R.1 W., 4.8 mi below Lost Lake, and 6.8 mi north of Seward.	7.96	d1963-72	9-20-76	a920
*15239500 Fritz Creek	Kachemak Bay	Lat 59°40'10", long 151°20'35", in SW¼ sec.28, T.5 S., R.12 W., on left bank 200 ft above culvert on east road, and 9 mi northeast of Homer.	10.4	1962, 1968-75	5-20-76	26
*15239800 Diamond Creek	Cook Inlet	Lat 59°40'10", long 151°40'00", in SE¼ sec.9, T.6 S., R.14 W., on right bank of Sterling Highway, 1.3 mi above Cook Inlet, and 4.6 mi northwest of Homer.	5.35	1962, 1968-75	5-20-76	14
*15240500 Cook Inlet Tributary	Cook Inlet	Lat 59°58'45", long 151°43'20", on left upstream wingwall of culvert on Sterling Highway, 5.4 mi southwest of Ninilchik.	1.69	1968-75	5- 5-76	94

* Also a crest-stage partial-record station.
/ Sample analyses in section on Water-quality data collected from springs.
# Sample analyses in section on Water-quality data collected at miscellaneous sites.
a Peak flow.
d Operated as a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1976--Continued.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		South-Central Alaska--Continued				
Crooked Creek	Kasilof River	Lat 60°17'50", long 151°16'20", in NE¼ sec.1, T.2 N., R.12 W., at culvert on the Old Sterling Highway, 1.8 mi upstream from Kasilof River, and 6.5 mi southeast of Kasilof.	53.8	1973-75	2-10-76 3-31-76	21 32
15243900 Snow River	Kenai Lake	Lat 60°17'11", long 149°20'19", in SE¼ sec.6, T.2 N., R.1 E., Kenai Peninsula Borough, at Alaska Railroad bridge, 3.5 mi upstream from mouth at Kenai Lake, and 13 mi north of Seward.	128	1970-74‡	9-20-76	b18,900
15250000 Falls Creek	Trail River	Lat 60°25'50", long 149°22'10", at mile 25 on Seward-Anchorage Highway, 0.1 mi above Trail River and 2 mi north of Lawing.	11.8	d1963-70	9-20-76	a510
15251800 Quartz Creek	Kenai Lake	Lat 60°35'45", long 149°32'35", at mile 42 on Seward-Anchorage Highway, and 0.4 mi south of Gilpatricks.	9.41	d1963-70	9-20-76	a600
#Jean Creek	Skilak Lake	Lat 60°29'04", long 150°06'55", at culvert on Skilak Lake Road, 0.3 mi from Sterling Highway junction, and 10 mi southwest of Cooper Landing.	11.7	1974-75	2-10-76 3-29-76	2.9 1.7
#Hidden Creek	do	Lat 60°27'30", long 150°11'47", at culvert on Skilak Lake Road, 0.7 mi downstream from Hidden Lake, and 13 mi southwest of Cooper Landing.	c23	1973-75	2-10-76 3-29-76	5.4 5.6
Russian Jack Springs	Chester Creek	Lat 61°12'25", long 149°46'55", in NW¼ sec.22, T.13 N., R.3 W., and 3.5 mi east of Anchorage.	--	1948-49, 1952-63, 1965,1967-74	3-26-76	3.1
Ship Creek	Knik Arm	Lat 61°14'20", long 149°47'24", in NE¼ sec.10 T.13 N., R.3 W., on downstream side of bridge at Elmendorf Air Force Base, 3.7 mi northeast of Anchorage Post Office, and 4.9 mi above mouth.	113	1963-71, 1974	4- 7-76	1.9
Little Meadow Creek	Big Lake	Lat 61°34'38", long 149°43'33", in SE¼ sec.12, T.17 N., R.3 W., 500 ft downstream from Anchorage to Fairbanks Highway crossing, at old highway site, 2.4 mi upstream from Lucile Creek, and 5.5 mi southeast of Houston.	c17	1974-75	2-12-76 3-24-76	5.8 4.8
Meadow Creek	do	Lat 61°33'49", long 149°49'22", in SE¼ sec.16, T.17 N., R.3 W., at crossing of road to Beaver Lake, 1.8 mi downstream from confluence of Little Meadow Creek and Lucile Creek, and 3.2 mi upstream from Big Lake.	c41	1974-75	2-12-76 3-24-76	8.5 9.6
Fish Creek	Knik Arm	Lat 61°32'03", long 149°49'30", in SE¼ sec.28, T.17 N., R.3 W., at outlet of Big Lake, and 13 mi west of Wasilla.	c68	1971, 1974-75	2-12-76 3-24-76	23 20
Fish Creek	do	Lat 61°26'21", long 149°47'04", in NE¼ sec.34, T.16 N., R.3 W., 150 ft upstream from bridge on Goose Bay road, and 2.2 mi southwest of Knik.	c100	1974-75	2-12-76 3-24-76	32 18
†Peters Creek	Kahiltna River	Lat 62°31'57", long 150°48'27", in NE¼ sec.7, T.28 N., R.8 W., 0.1 mi downstream from Pioneer Gulch and 3 mi northwest of Petersville.	25.4	1975	10- 6-75 6-23-76 8-14-76	82 189 57
†Peters Creek	do	Lat 62°23'00", long 150°43'53", in SE¼ sec.34, T.27 N., R.8 W., 0.7 mi upstream from Martin Creek and 0.7 mi northeast of Peters Creek.	53.1	1975	10- 7-75 6-23-76 8-13-76	136 248 85
†Capps Creek	Chichantna River	Lat 61°19'46", long 150°37'26", in SW¼ sec.4, T.14 N., R.13 W., 0.5 mi upstream from mouth, and 24 mi northwest of Tyonek.	11.8	1975	10- 9-75 4-14-76 7- 2-76 8-20-76	31 5.5 103 22
‡Bishop Creek	Beluga River	Lat 61°18'23", long 151°30'27", in NW¼ sec.18, T.14 N., R.12 W., 3 mi west of Bishop Lake, and 21 mi northwest of Tyonek.	10.9	1975	10- 9-75 4-14-76 7- 2-76 8-20-76	23 4.0 18 16
†Chuitna River	Cook Inlet	Lat 61°11'52", long 151°39'20", in SW¼ sec.20, T.13 N., R.13 W., 0.2 mi downstream from Wolverine Fork and 20 mi northwest of Tyonek.	19.5	1975	10- 9-75 4-14-76 7- 2-76 8-20-76	74 11 97 39

† Operated as a continuous-record station.
‡ Sample analyses in section on Water-quality partial-record stations.
# Sample analyses in section on Water-quality data collected at miscellaneous sites.
a Peak flow.
b Annual peak flow from rating curve.
c Approximately.
d Operated as a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1976--Continued.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		South-Central Alaska--Continued				
+Chuitna River	Cook Inlet	Lat 61°09'16", long 151°30'11", in SW¼ sec.1, T.12 N., R.13 W., 200 ft upstream from Chuit Creek, and 13 mi northwest of Tyonek.	37.3	--	10- 9-75	48
					4- 8-76	10
					7- 2-76	144
					8-20-76	59
+Chuit Creek	Chuitna River	Lat 61°12'44", long 151°33'54", in SW¼ sec.14, T.13 N., R.13 W., 5.4 mi upstream from mouth, and 17 mi northwest of Tyonek.	9.80	1975	10- 9-75	28
					4- 8-76	2.7
					7- 2-76	26
					8-20-76	16
+Chuit Creek	do	Lat 61°10'19", long 151°31'12", in SE¼ sec.36, T.13 N., R.13 W., 1.6 mi upstream from mouth, and 15 mi northwest of Tyonek.	12.4	1975	10- 9-75	22
+Chuit Creek	do	Lat 61°09'18", long 151°30'11", in SW¼ sec.1, T.12 N., R.13 W., 200 ft upstream from mouth, and 13 mi northwest of Tyonek.	23.0	--	10- 9-75	31
					4- 7-76	12
					7- 2-76	49
					8-20-76	29
Humpy Creek	Akalura River	Lat 57°10'09", long 154°13'34", in SW¼ sec.4, T.35 S., R.31 W., 20 ft upstream from mouth, and 0.4 mi north of Olga Bay.	--	--	10- 2-75	9.7
					1-12-76	1.9
					3-16-76	2.4
					7- 8-76	3.7
		Yukon Alaska				
15365000 Discovery Fork American Creek	American Creek	Lat 64°39'40", long 141°18'00", in NW¼ sec.15, T.3 S., R.32 E., on left bank 24 ft upstream from bridge at mile 149.1 on Taylor Highway, and 9.3 mi south of Eagle.	5.53	(e)	10-12-63	2.6
					7-10-64	6.1
					7-22-65	3.8
					8-28-65	5.5
					9-22-65	4.7
					7-15-66	2.1
					8-22-66	1.2
					6-19-67	2.3
					6-12-69	4.5
15438500 Bedrock Creek	Crooked Creek	Lat 65°33'28", long 145°05'26", in SW¼ sec.32, T.9 N., R.13 E., on right bank 400 ft downstream from culverts at mile 119 on Steese Highway, 0.3 mi upstream from mouth of Crooked Creek, and 8 mi west of Central.	9.94	(e)	7-25-65	38
					9- 1-65	1.1
					9-27-65	16
					5-23-66	11
					6-28-66	10
					7-29-66	0.34
					8-31-66	0.18
					7-27-67	8.7
					5-13-69	17
					6-25-69	0.17
					8-19-69	1.5
					5-27-70	40
					7- 1-70	40
					5-20-71	45
					8- 1-71	0.81
					7-13-72	1.5
/Circle Hot Springs	Hot Springs Creek	Lat 65°28'57", long 144°38'18", in SW¼NE¼NW¼ sec.34, T.8 N., R.15 E., behind Roadhouse at Circle Hot Springs, 0.2 mi upstream from Hot Springs Creek and 7.8 mi southeast of Central, Alaska.	--	--	7-10-76	0.66
15469900 Silver Creek	Chisana River	Lat 62°59'01", long 141°40'07", in NW¼ sec.20, T.14 N., R.20 E., on left bank, 20 ft upstream from culvert at mile 1,258.8 on the Alaska Highway, and 4 mi southeast of Northway Junction.	11.7	(e)	10-10-63	1.8
					7-12-64	78
					5-23-65	5.5
					7-24-65	4.9
					8-27-65	1.3
					9-24-65	3.8
					5-13-66	16
					5-19-67	4.8
					7- 6-68	3.4
					6-15-69	0.76
					5-13-70	1.8
					8-23-72	0.94
Delta River	Tanana River	Lat 64°09'10", long 145°51'35", in NE¼ sec.7, T.9 S., R.10 E., 0.2 mi upstream from mouth and 0.6 west of Big Delta.	--	1975	3- 2-76	29
#Salcha River	do	Lat 64°29'10", long 146°39'00", in NE¼NE¼ sec.13, T.5 S., R.5 E., 8 mi above gage near Salchaket, Alaska, 470 ft above TAPS crossing.	--	--	3-12-76	110
					3-14-76	115

/ Sample analyses in section on Water-quality data collected from springs.
+ Sample analyses in section on Water-quality partial-record stations.
# Sample analyses in section on Water-quality data collected at miscellaneous sites.
e Discontinued crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1976--Continued.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Yukon Alaska--Continued				
#Salcha River	Tanana River	Lat 64°29'10", long 146°39'00", in NE¼NE¼ sec.13, T.5 S., R.5 E., 8 mi above gage near Salchaket, Alaska, 450 ft below TAPS crossing (site 2).	--	--	3-13-76 3-14-76	91 108
#Salcha River	do	Lat 64°29'10", long 146°39'00", in NE¼NE¼ sec.13, T.5 S., R.5 E., 8 mi above gage near Salchaket, 1450 ft below TAPS crossing (site 3).	--	--	3-14-76 8- 6-76	139 1,190
Slough of Tanana River	Tanana River	Lat 64°44'05", long 147°21'53", in SW¼SE¼SW¼ sec.16, T.2 S., R.2 E., 1.0 mi south of North Pole, Alaska.	--	--	2- 6-76	158
15511500 Steel Creek	Chena River	Lat 64°53'36", long 147°29'12", in SE¼ sec.23, T.1 N., R.1 E., Fairbanks North Star Borough, on left bank 8 ft upstream from culvert at mi 4.5 on the Chena Hot Springs Highway, and 7.5 mi northeast of Fairbanks.	10.7	(e)	7-28-67 8- 2-67 8-10-67 9- 1-67 9-26-67 5-10-68 5-29-68 7- 9-68 7-24-68 6-24-70 6-29-71 9-30-71 5- 2-74 7-29-74	6.3 4.1 8.1 13 5.8 9.5 3.5 3.4 2.9 5.6 3.0 6.7 7.4 1.4
Chena Slough	Chena River	Lat 64°45'26", long 147°19'38", in SE¼SE¼NW¼ sec.10, T.2 S., R.2 E., at culvert at Mission Road, 0.7 mi northeast of North Pole, Alaska.	--	--	5-19-76	5.1
Chena Slough	do	Lat 64°45'47", long 147°20'28", in SE¼SE¼SE¼ sec.4, T.2 S., R.2 E., at downstream side of Hurst Raod bridge, 0.8 mi north of North Pole.	--	--	5-19-76	24
Chena Slough	do	Lat 64°46'39", long 147°21'10", in SE¼SW¼SE¼ sec.33, T.1 S., R.2 E., 100 ft downstream from Plack Road bridge, 1.7 mi north of North Pole.	--	--	5-19-76	24
15511200 Chena Slough	do	Lat 64°49'15", long 147°26'15", in NW¼NW¼NW¼ sec.19, T.1 S., R.2 E., 100 ft upstream from culvert at Peede Road, 2.7 mi upstream from mouth.	--	1948-52‡	5-19-76	50
Salchaket Slough	Tanana River	Lat 64°44'14", long 147°57'45", in SE¼SW¼ sec.16, T.2 S., R.2 W., 0.9 mi upstream from North Channel Salchaket Slough, 2.2 mi upstream from mouth and 5.3 mi southeast of Fairbanks International Airport.	--	--	8- 5-76	4,320
+Healy Creek	Nenana River	Lat 63°53'08", long 148°38'20", in NE¼SW¼ sec.12, T.12 S., R.6 W., 1.3 mi upstream from Coal Creek, 4.6 mi Northeast of Usibelli, Alaska.	--	--	5-17-76 8-17-76 10- 5-76	55 85 71
+Coal Creek	Healy Creek	Lat 63°52'47", long 148°40'37", in NW¼NE¼ sec.14, T.12 S., R.6 W., at mough, 5.4 mi northeast of Suntrana.	18.1	1975	3- 9-76 8-17-76 10- 5-76	No flow 35 12
+Cripple Creek	do	Lat 63°52'45", long 148°44'06", in NW¼NE¼ sec.16, T.12 S., R.6 W., at bridge at mouth 3.8 mi north east of Suntrana.	7.33	1975	3-10-76 8-17-76 10- 4-76	No flow 9.8 3.4
+Healy Creek	Nenana River	Lat 63°51'10", long 148°50'37", in NW¼NW¼ sec.25, T.12 S., R.7 W., at Suntrana, 3.2 mi upstream from mouth.	107	1975	3-10-76 5-17-76 8-17-76 10- 5-76	66 116 153 84
Lignite Creek	do	Lat 63°54'26", long 148°58'17", in SE¼NE¼ sec.5, T.12 S., R.7 W., 0.5 mi upstream from mouth, and 1.1 mi east of Lignite, Alaska.	--	--	5-17-76 8-18-76 10- 5-76	111 21 14
15518100 Little Panguingue Creek	do	Lat 63°56'05", long 149°06'00", in NW¼ sec.27, T.16 S., R.8 W., on right bank 13 ft upstream from culvert on the Anchorage-Fairbanks Highway, 1.5 mi upstream from Nenana River, and 3 mi northwest of Lignite.	3.44	(e)	9- 2-65 7- 7-66 8-17-66 5-23-67 5-25-67 5-27-69 7-16-70	0.57 1.6 1.1 93 60 1.7 1.2

‡ Operated as a continuous-record station.
+ Sample analyses in section on Water-quality partial-record stations.
# Sample analyses in section on Water-quality data collected at miscellaneous sites.
e Discontinued crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1976--Continued.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Yukon Alaska--Continued				
15519000 Bridge Creek	Tolovana River	Lat 65°27'52", long 148°15'13", on left bank, 10 ft upstream from culvert at mi 56 on Elliott Highway, 9.5 mi southeast of Livengood.	12.6	(e)	8- 5-63	88
					10- 6-63	6.6
					7-26-65	8.0
					8-31-65	3.5
					9-26-65	25
					5-19-66	69
					6-26-66	2.9
					8- 2-66	No flow
					5-15-67	19
					6- 2-67	14
					7-25-67	57
					6-24-69	No flow
					7-29-69	16
					8-13-69	5.3
					5-15-70	1.1
					7-22-70	16
					8-12-71	27
15530000 Faith Creek	Chatanika River	Lat 65°17'32", long 146°22'48", in NE¼ sec.6, T.5 N., R.7 E., on right bank 88 ft upstream from bridge at mi 69 on Steest Highway, 0.2 mi upstream from mouth on Chatanika River, 19 mi northwest of Chena Hot Springs, and 34.5 mi northeast of Chatanika.	61.1	(e)	7-17-64	75
					7-25-65	138
					9- 1-65	63
					9-27-65	148
					6-28-66	60
					7-29-66	23
					9- 1-66	20
					6-21-67	129
					7-26-67	258
					6-12-68	187
					5-13-69	138
					6-25-69	17
					8-18-69	171
					5-26-70	257
					7- 1-70	318
					7- 9-71	85
					8-22-72	74
15541650 Globe Creek Tributary	Globe Creek	Lat 65°16'31", long 148°06'58", on right bank, 20 ft upstream from right culvert at mi 36.9 on Elliott Highway, 1 mi ab mouth on Globe Creek, and 20 mi southeast of Livengood.	9.01	(e)	8- 5-63	96
					7-26-65	9.0
					8-31-65	6.3
					9-26-65	13
					6-26-66	6.5
					8- 2-66	2.6
					5- 4-67	58
					7-25-67	123
					6- 7-68	42
					6-24-69	0.71
					7-29-69	56
					8-13-69	11
					5-51-70	11
					6-22-70	72
					9- 8-72	3.3
15541800 Washington Creek	Tatalina River	Lat 65°09'03", long 147°51'22", on right bank 100 ft upstream from bridge at mi 18.2 on Elliott Highway, and 15 mi northwest of Fox.	46.7	(e)	10- 6-63	36
					6-24-65	66
					7-26-65	16
					8-31-65	23
					9-26-65	48
					6-26-66	26
					8- 2-66	9.0
					6- 2-67	74
					7-25-67	229
					6- 7-68	289
					6-24-69	5.8
					6-22-70	38
					5-24-72	248
					8-17-72	31
Goldstream Creek	Chatanika River	Lat 64°54'46", long 147°49'45", in NE¼NE¼SW¼ sec.18, T.1 N., R.1 W., at bridge on Ballaine Road, 0.3 mi downstream from Big Eldorado Creek, 3.8 mi north of University of Alaska and 2.9 mi north of College, Alaska.	--	--	8- 4-76	14
ƒManley Hot Springs	Karshner Creek	Lat 65°00'18", long 150°37'54", in SW¼NE¼NE¼ sec.17, T.2 N., R.15 W., just upstream from Karshner Creek, 0.1 mi northwest of culvert at mi 162.7 on Elliott Highway, at Manley Hot Springs, Alaska.	--	--	7- 9-76	0.45

ƒ Sample analyses in section on Water-quality data collected from springs.
e Discontinued crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1976--Continued.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (Water years)	Measurements	
					Date	Discharge (ft³/s)
		Northwest Alaska				
≠Clear Creek Hot Springs	Clear Creek	Lat 64°50'51", long 162°17'55", in SW¼SW¼ sec.27, T.7 S., R.18 W., Kateel meridian, 14 mi northwest of Moses Point.	--	--	7-11-76	0.24
≠Clear Creek Hot Springs	do	Lat 64°51'03", long 162°17'44", in NE¼SW¼ sec.27, T.7 S., R.18 W., Kateel meridian, 14 mi northwest of Moses Point	--	--	7-11-76	0.21
≠Serpentine Hot Springs	Hot Springs Creek	Lat 65°51'11", long 164°41'47", in NW¼ sec.12, T.5 N., R.29 W., Kateel meridian, on right bank of Hot Springs Creek, 50 mi southeast of Shishmaref.	--	--	7-12-76	0.06
≠North Fork Squirrel River Springs	Squirrel River	Lat 67°18'18", long 161°08'55", in NW¼SW¼ sec.17, T.22 N., R.11 W., on west side of North Fork Squirrel River, 30.5 mi northwest of Kiana.	--	--	4- 5-76	13
Amaouk Creek	Ekichuk Lake	Lat 66°58'48", long 161°19'00", in NW¼NW¼ sec.9, T.18 N., R.12 W., 6.2 mi upstream from mouth and 1 mi northwest of Noorvik.	--	--	4- 5-76	3.1
Kelly River	Noatak River	Lat 68°12'06", long 162°12'45", in SW¼NE¼ sec.1, T.32 N., R.16 W., 9.6 mi upstream from Wrench Creek and 48 mi north of Noatak.	--	--	4- 6-76	5.9
≠Eli River Spring	do	Lat 67°42'51", long 162°19'36", in SE¼NW¼ sec.29, T.27 N., R.16 W., 5.5 mi upstream from Urgoon Creek and 19.5 mi northeast of Noatak.	--	--	4- 6-76	1.4
Rabbit Creek	Chuckchi Sea	Lat 67°28'20", long 163°46'00", in NW¼NW¼ sec.22, T.24 N., R.23 W., 6 mi upstream from mouth, and 22.1 mi west of Noatak.	--	--	4- 7-76	11
Omikviorok River	do	Lat 67°41'50", long 164°20'30", in SE¼NE¼ sec.34, T.27 N., R.24 W., 8.2 mi upstream from mouth and 13.0 mi east of Kavalina.	--	--	4- 6-76	3.3
Wulik River	do	Lat 67°55'30", long 163°34'20", in NW¼SW¼ sec.7. T.29 N., R.21 W., 3.0 mi upstream from Ikalukrok Creek and 28.3 mi east of Kivalina.	--	--	4- 6-[illegible]	9.6
≠Kivalin River Tributary	Kivalina River	Lat 68°08'24", long 163°57'18", in NW¼SW¼ sec.28, T.32 N., R.23 W., 13 mi upstream from mouth and 32 mi northeast of Kivalina.	--	--	4- 7-76	7.0
≠Kavrorak Spring	Kavrorak Lagoon	Lat 67°52'26", long 164°52'37", in NW¼NW¼ sec.33, T.29 N., R.27 W., on south side of Kavrorak Hill, 13.6 mi northwest of Kivalina.	--	--	4- 7-76	5.3
		Arctic Slope Alaska				
Kuparuk River	Beaufort Sea	Lat 69°17'02", long 150°17'23", in SW¼SE¼ sec.31, T.1 S., R.8 E., 41.5 mi west of Sagwon and 45.5 mi east of Umiat.	--	--	5- 6-69	1.0
15904900 Atigun River Tributary	Atigun River	Lat 68°22'25", long 149°18'48", in NE¼SE¼ sec.28, T.12 S., R.12 E., 0.4 mi upstream from culvert on TAPS haul road, 0.9 mi upstream from mouth, and 3.5 mi south of Pump Station 4.	32.6	--	7-30-76	a1,000
Saviukviayak Spring	Saviukviayak River	Lat 68°56'20", long 147°58'45", in NW¼ sec.12, T.6 S., R.17 E., 5 mi upstream from mouth and 39 mi southeast of Sagwon, Alaska.	--	--	4-20-75	45
Ivishak River	Sagavanirktok River	Lat 69°04'31", long 147°53'06", in SE¼ sec.19, T.4 S., R.18 E., 0.7 mi upstream from Flood Creek, 31 mi Southeast of Sagwon.	--	1973	4-20-75	74
#West Channel Sagavanirktok River	Beaufort Sea	Lat 70°15'22", long 148°18'02", in NE¼NE¼NW¼ sec.3, T.10 N., R.15 E., at bridge at Filtration Plant, 0.4 mi east of east end of Prudhoe Bay Airfield, and 5 mi northeast of Deadhorse.	--	--	6- 9-76	8,480
#Shaviovik River	do	Lat 70°02'30", long 147°20'10", in SW¼ sec.14, T.8 N., R.19 E., 28.3 mi southeast of Deadhorse.	--	--	11- 7-75	12
Red Hill Spring	Canning River	Lat 69°37'37", long 146°01'38", in SW¼ sec.8, T.3 N., R.25 E., 49 mi south of Flaxman Island.	--	--	4-28-75	0.86

≠ Sample analyses in section on Water-quality data collected from springs.
# Sample analyses in section on Water-quality data collected at miscellaneous sites.
a Peak flow.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (Water years)	Measurements	
					Date	Discharge (ft³/s)
		Arctic Slope Alaska--Continued				
#Canning River	Beaufort Sea	Lat 69°48'29", long 146°23'25", in SE¼ sec.9, T.6 N., R.23 E., 23 mi southwest of Flaxman Island.	--	--	11- 8-75	228
Katakturuk River Tributary Spring	Katakturuk River	Lat 69°41'42", long 145°06'33", in NW¼ sec. 3, T.4 N., R.23 E., 36 mi southeast of Flaxman Island.	--	--	4-29-75	4.3
/Sadlerochit River	Beaufort Sea	Lat 69°39'13", long 144°22'56", in SW¼SW¼ sec.31, T.4 N., R.32 E., 27 mi upstream from mouth 38 mi southwest of Kaktovik.	--	--	8- 7-75	411
Sadlerochit Spring	Itkilyariak Creek	Lat 69°39'23", long 144°23'37", in NE¼SE¼ sec.36, T.4 N., R.31 E., 38 mi southwest of Kaktovik.	--	--	4-27-75 8- 7-75 11-17-75	35 37 39
Jago River	Beaufort Sea	Lat 69°37'02", long 143°41'06", in SW¼NW¼ sec.13, T.3 N., R.34 E., 35 mi south of Kaktovik and 39 mi upstream from mouth.	--	--	8- 8-75	266
Okerokovik River	Jago River	Lat 69°42'07", long 143°14'23", in NE¼NE¼SE¼ sec.15, T.4 N., R.36 E., 11.2 mi upstream from mouth.	169	--	8- 8-75	85
Okerokovik River	Jago River	Lat 69°43'06", long 143°14'25", in NE¼SE¼NE¼ sec.10, T.4 N., R.36 E., 10.2 mi upstream from mouth.	--	--	11-24-75	2.6
Kongakut Spring	Kongakut River	Lat 69°32'36", long 141°49'38", in SW¼SW¼NE¼ sec.9, T.2 N., R.42 E., 13 mi southwest of Demarcation Bay, 59 mi southeast of Kaktovik.	--	--	4-27-75	13
Kongakut River	Beaufort Sea	Lat 69°42'50", long 141°47'30", in SW¼ sec.10, T.4 N., R.42 E., 12 mi West of Demarcation Point.	--	--	4-27-75 11-18-75	38 90
/Clarence River Spring	Clarence River	Lat 69°30'44", long 141°11'37", in NE¼ sec.25, T.2 N., R.45 E., 12.4 mi south of Demarcation Point.	--	--	11-11-75	4.7

/ Sample analyses in section on Water-quality data collected from springs.

# Sample analyses in section on Water-quality data collected at miscellaneous sites.

Ship Creek seepage investigation - Anchorage, Alaska

On October 11, 1974, a series of discharge measurements were made on Ship Creek to study channel gains and losses. The reach measured is 9.5 miles long between a gaging station at the Public Water Supply diversion dam and a point 250 feet below the Alaska Railroad bridge crossing, 1.0 miles upstream from the mouth. The measurements were made during an 8 hour period of relatively steady flow. Indicated gains and losses may be in error due to inherent inaccuracies in estimating small flow volumes and in current meter measurement methods in open channels. Previous seepage investigations of this reach were made September 10, 1968, May 18 and 24, 1972, and May 6, 1974.

Ship Creek Mile	Stream	Location	Inflow (ft³/s)	Main Stem (ft³/s)	Gain or Loss
10.5	Ship Creek	NW¼NE¼NE¼ sec. 16, T.13 N., R.2 W., gaging station 15276000......	--	76.4	--
9.0	diversion	NE¼NW¼SE¼ sec. 8, T.13 N., R.2 W., diversion to recharge pit.....	-6.20	--	--
9.0	Ship Creek	NE¼NW¼SE¼ sec. 8, T.13 N., R.2 W., 10 ft below diversion to recharge pit..........	--	67.0	-3.2
⸗7.7	--do--	SW¼NE¼SW¼ sec. 6, T.13 N., R.2 W., 200 ft above fish hatchery dam at Fort Richardson power plant..........	--	60.1	-6.9
7.5	tributary	NW¼NW¼SW¼ sec. 6, T.13 N., R.2 W., groundwater pumped from wells at hatchery, discharged to stream..........	5.8	--	--
7.4	Ship Creek	NW¼NW¼SW¼ sec. 6, T.13 N., R.2 W., 1,300 ft below fish hatchery dam..........	--	65.3	-0.6
5.9	--do--	NW¼SE¼SE¼ sec. 2, T.13 N., R.3 W., 1.0 mi upstream from Boniface Parkway bridge..........	--	59.8	-5.5
⸗⸗4.3	--do--	NW¼NW¼NE¼ sec. 10, T.13 N., R.3 W., discontinued gaging station 15276500..........	--	54.7	-5.1
4.2	tributary	SE¼NE¼NW¼ sec. 10, T.13 N., R.3 W., 600 ft below discontinued gaging station 15276500..........	e0.9	--	--
3.0	Ship Creek	SE¼SE¼NW¼ sec. 9, T.13 N., R.3 W., 500 ft above Elmendorf AFB power plant dam..........	--	67.1	+11.5
3.0	tributary	SE¼SE¼NW¼ sec. 9, T.13 N., R.3 W., 300 ft above Elmendorf AFB power plant dam..........	e0.2	--	--
2.8	Ship Creek	NW¼NE¼SW¼ sec. 9, T.13 N., R.3 W., 200 ft below Elmendorf AFB power plant dam..........	--	67.1	-0.2
2.8	tributary	NW¼NE¼SW¼ sec. 9, T.13 N., R.3 W., 300 ft below Elmendorf AFB power plant dam..........	e0.7	--	--
2.8	tributary	NW¼NE¼SW¼ sec. 9, T.13 N., R.3 W., pipe discharging to stream 350 ft below power plant dam..........	e0.5	--	--
2.2	tributary	SE¼SE¼SE¼ sec. 8, T.13 N., R.3 W..........	e0.3	--	--
2.0	Ship Creek	SE¼SW¼SE¼ sec. 8, T.13 N., R.3 W., gaging station 15276570.......	--	73.4	+4.8
1.0	--do--	NW¼NW¼NW¼ sec. 17, T.13 N., R.3 W., 250 ft below Alaska Railroad bridge..........	--	80.3	+6.9
		Overall net gain or loss			+1.7

⸗ Previously published as 2.8 mi downstream from gage (station 15276000).
⸗⸗ Previously published as NE¼NE¼NE¼.
e Estimated.

LAKE-LEVEL MEASUREMENTS OF SELECTED LAKES

SOUTH-CENTRAL ALASKA

Measurements of lake levels of selected lakes are given in the following table. Data are being collected at these lakes to define lake level changes from seasonal variations, the effects of man, response to droughts and response to changes in the ground-water system. Lake levels are referenced to an arbitrary gage datum and not tied to mean sea level.

Lake	Tributary to	Location	Surface area (acres)	Measured previously (water year)	Measurements Date	Measurements Lake level (ft.)
		Kenai Peninsula Borough				
Shadura	Closed lake in Beaver Creek basin	Lat 60°42'18", long 151°00'15", in NE¼ sec. 15, T.7 N., R.10 W., at the northeast shore, and 13.7 mi northeast of Kenai.	236	1970-71	10-14-75	16.50
Konovalof	Closed lake in Beaver Creek basin	Lat 60°39'49", long 151°09'50", in SW¼ sec. 26, T.7 N., R.11 W., at the southern shore of a small island, and 8.2 mi northeast of Kenai.	262	1970-71	10-14-75	17.07
Kidney	Closed lake in Beaver Creek basin	Lat 60°42'18", long 151°00'15", in NE¼ sec. 15, T.7 N., R.10 W., at the northeast shore, and 13.7 mi northeast of Kenai.	236	1970-72, 1974-75	10-13-75	12.22
Cabin	Closed lake	Lat 60°40'30", long 151°19'15", in NE¼ sec. 26, T.7 N., R.12 W., at the eastern shore, 0.2 mi west of Miller Loop Road, and 8.5 mi northwest of Kenai.	57	1970-72, 1974-75	10-13-75	10.29
Dog Bone	Closed lake	Lat 60°41'42", long 151°17'35", in SE¼ sec. 13, T.7 N., R.11 W., at the western shore, 0.9 mi east of Island Lake Road, and 10.7 mi north of Kenai.	29	1970-72, 1974-75	10-13-75	5.02
Island	Closed lake	Lat 60°42'19", long 151°19'05", in SE¼ sec. 11, T.7 N., R.12 W., at the western shore, 0.1 mi east of Island Lake Road, and 10.7 mi north of Kenai.	27	1970-72, 1974-75	10-13-75	11.19
Unnamed Lake	Closed lake in Bernice Creek basin	Lat 60°40'13", long 151°19'05", in SW¼ sec. 23, T.7 N., R.12 W., at the southern shore, 0.4 mi north of Miller Loop Road, and 9.4 mi north of Kenai.	9.6	1970-72, 1974-75	10-13-75	10.55
Bernice	Bernice Creek	Lat 60°41'28", long 151°22'28", in SW¼ sec. 15, T.7 N., R.12 W., at the western shore, 0.1 mi east of outlet, 0.2 mi east of North Kenai Road, and 10.3 mi northwest of Kenai.	150	1970-72, 1974-75	10-13-75	17.54
Douglas	Closed lake in Bishop Creek basin	Lat 60°40'27", long 151°13'20", in NW¼ sec. 28, T.7 N., R.11 W., at the northern shore, 0.8 mi east of Lamplighter Holt Road, and 8.3 mi north of Kenai.	96	1970-72, 1974	10-13-75	15.79
Wick	Closed lake	Lat 60°43'06", long 151°17'35", in NE¼ sec. 8, T.7 N., R.11 W., at the northern shore, 0.2 mi south of Lamplighter Holt Road, and 11.4 mi north of Kenai.	160	1970-72, 1974-75	10-13-75	15.41
Laura	Closed lake	Lat 60°43'44", long 151°13'15", in NW¼ sec. 4, T.7 N., R.11 W., at the northwestern shore, 0.3 mi southeast of Halbouty Road, and 12.1 mi north of Kenai.	42	1970-72, 1974-75	10-13-75	4.71
Daniels	Bishop Creek	Lat 60°44'36", long 151°12'25", in NE¼ sec. 33, T.7 N., R.11 W., at the northwestern shore, 0.2 mi southeast of North Kenai Road, and 13.1 mi north of Kenai.	614	1970-72	10-14-75	17.53
		Municipality of Anchorage				
Sand	Closed lake	Lat 61°09'03", long 149°58'25", in NW¼ sec. 10, T.12 N., R.4 W., at western shore, 4.0 mi southwest of Spenard. (Station number 15274700.)	78	#1967-74, 1975	10- 7-75	*84.66
					2-12-76	84.49
					5-19-76	85.05
					6- 3-76	85.01
					6-16-76	84.94
					6-21-76	84.86
					7-23-76	84.43
					8-23-76	84.24
					9-24-76	84.29

# Operated as a daily stage station during open water with occasional readings during rest of year.
* Gage datum is at mean sea level.

SOUTH-CENTRAL ALASKA

Lake	Tributary to	Location	Surface area (acres)	Measured previously (water year)	Measurements	
					Date	Lake level (ft.)
		Matanuska-Susitna Borough				
Big Lake	Fish Creek	Lat 61°32'04", long 149°49'30", in SE¼ sec. 28, T.17 N., R.3 W., head of Fish Creek at lake outlet, on left bank upstream from square notched weir upstream from bridge on Big Lake Road, and 13 mi southwest of Wasilla. (Station number 15287000.)	3,104	1972-75	5-24-76	10.14
					7- 8-76	9.89
					8-20-76	10.22
Scotty	Ninemile Creek	Lat 62°19'05", long 150°19'20", head of Ninemile Creek, 0.1 mi north of Petersville Road, 0.3 mi south of outlet, and 7 mi west of Talkeetna. (Station number 15294030.)	224	1972-75	5-24-76	9.28
					8-20-76	9.36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are particular sites where chemical-quality, biological and or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA

*15054500 BESSIE CREEK NEAR AUKE BAY (LAT 58 35 30 LONG 134 54 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
SEP				
08...	1212	10	57	9.5
15...	1030	44	44	9.0

+15056100 SKAGWAY RIVER AT SKAGWAY (LAT 59 27 27 LONG 135 19 23)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JAN						
22...	1100	32	58	--	.0	13.4
MAY						
13...	1150	290	80	7.5	3.0	--

*15057500 WILLIAM HENRY CREEK NEAR AUKE BAY (LAT 58 44 46 LONG 135 14 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
SEP				
10...	1200	9.5	68	8.5

* 15081890 NATZUHINI CREEK NEAR HYDABURG (LAT 55 17 09 LONG 132 49 16)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV				
14...	1100	E40	124	3.5

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* Crest-stage partial-record station.
+ Stream-gaging station at which discharge was not published.

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

+ 15083500 PERKINS CREEK NEAR METLAKATLA (LAT 54 56 42 LONG 132 10 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
AUG 06...	0930	4.1	48	35	.7	1.5	.07	.07	.28	.35	.42	.01

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TANNIN AND LIGNIN (MG/L)
AUG 06...	0930	<10	470	20	6.1	10	.6

+ 15087610 NAKWASINA RIVER NEAR SITKA (LAT 57 15 37 LONG 135 19 54)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 04...	1600	195	49	6.9	5.5	3	1	12.3	18	3	7.1

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
SEP 04...	.1	1.1	.2	19	0	3.8	4.1	1.4	.0	1.8

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP 04...	29	26	.13	.07	.00	.35	.35	.48	.00	.01

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
SEP 04...	1600	10	80	10	0	0	.1	0	.5	.0

+ Stream-gaging station at which discharge was not published.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

15087610 NAKWASINA RIVER NEAR SITKA (LAT 57 15 37 LONG 135 19 54)--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP 04...	1600	195	5.5	1	7	3.7

*15101200 KALININ CREEK NEAR SITKA (LAT 57 18 14 LONG 135 46 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG 31...	1400	13	53	7.2	7.0	9.0	18	1	10.0	16	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
AUG 31...	5.4	.6	3.0	.3	19	0	1.9	6.3	3.6	.0	5.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
AUG 31...	34	34	.06	.06	.07	.15	.22	.28	.01	.00

DATE	TIME	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
AUG 31...	1400	20	190	90	10	0	.2	10	1.8	.4

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG 31...	1400	13	7.0	9.0	1	3	.11

* Stream-gaging station at which discharge was not published.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

*15101800 FISHERY CREEK NEAR ANGOON (LAT 57 45 45 LONG 134 42 21)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
SEP 12...	1200	220	60	7.7	6.0	25	30	8	10	1.2	1.0	.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP 12...	27	0	.9	2.9	.9	.1	4.1	55	44	2.3	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
SEP 12...	1200	220	10

*15108250 GAME CREEK NEAR HOONAH (LAT 58 03 02 LONG 135 29 21)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
AUG 27...	1630	90	157	8.3	10.0	8	61	1	21	2.1	1.8	.6

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
AUG 27...	73	0	.6	6.4	1.2	.1	2.9	88	73	.25	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG 27...	1630	100	0

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* Crest-stage partial-record station.

SOUTHEAST ALASKA--Continued

* 15108290 GOS CREEK NEAR ELFIN COVE (LAT 58 11 49 LONG 136 03 07)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
AUG 29...	1145	48	33	7.2	9.0	25	12	0	4.4	.3	1.4	.1

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
AUG 29...	17	0	1.7	2.3	1.0	.0	4.0	38	22	.07	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG 29...	1145	120	0

SOUTH-CENTRAL ALASKA

* 15274800 SOUTH BRANCH SOUTH FORK CHESTER CREEK NEAR ANCHORAGE (LAT 61 12 37 LONG 149 43 52)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP 22...	1430	11	113	7.5	7.0	12.0	54	16	46	2.3

* Crest-stage partial-record station.

PETERS CREEK NEAR PETERSVILLE (LAT 62 31 57 LONG 150 48 27)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 06...	1430	82	46	6.5	4.0	36	50	--	17	1	4.8
JUN 23...	1800	189	41	7.4	6.5	17	50	12.3	17	1	4.4
AUG 14...	1330	57	50	7.4	11.0	20	35	9.8	22	0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

PETERS CREEK NEAR PETERSVILLE (LAT 62 31 57 LONG 150 48 27)--Continued

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 06...	1.2	1.6	.2	20	0	10	3.2	.1	.1	5.5
JUN 23...	1.5	.8	.2	20	0	1.3	2.9	1.3	.1	5.2
AUG 14...	--	--	--	28	--	1.8	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 06...	27	27	.05	.05	.01	.10	.11	.16	.06	.00
JUN 23...	32	26	.04	--	.02	.11	.13	.17	.14	.03
AUG 14...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT 06...	1430	1200	9	0	<100	10	10	10	2200	40
JUN 23...	1800	2700	7	--	0	0	10	10	5400	60

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT 06...	<100	130	10	.0	0	50	0	0	150	.03	1.1
JUN 23...	2	110	20	<.5	0	--	0	0	20	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT 06...	1430	82	4.0	50	25	5.5	--	--	--
JUN 23...	1800	189	6.5	60	128	65	98	99	100
AUG 14...	1330	57	11.0	35	76	12	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

PETERS CREEK ABOVE MARTIN CREEK AT PETERS CREEK (LAT 62 23 00 LONG 150 43 53)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
07...	0930	136	45	6.2	1.0	25	40	--	18	0	4.5
JUN											
23...	1330	248	41	7.2	10.0	3	23	11.5	19	2	4.9
AUG											
13...	1330	85	50	7.4	15.5	20	10	--	23	0	6.7

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
07...	1.7	1.4	.2	23	0	23	3.1	.1	.0	7.0
JUN										
23...	1.6	1.0	.2	20	0	2.0	3.0	1.6	.1	6.0
AUG										
13...	1.5	1.5	.2	28	--	1.8	4.1	.6	.1	6.2

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT										
07...	36	30	.22	.16	.01	.13	.14	.36	.04	.00
JUN										
23...	35	28	.05	--	.02	.11	.13	.18	.07	.02
AUG										
13...	41	35	.01	.00	.00	.00	.00	.01	.02	.00

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT										
07...	0930	1500	11	<100	10	10	<10	3200	150	<100
JUN										
23...	1330	770	3	0	0	10	0	1600	60	0
AUG										
13...	1330	370	2	0	<10	10	<10	950	120	<100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT										
07...	90	50	.1	10	<50	0	10	10	.03	3.9
JUN										
23...	50	20	<.5	0	5	0	0	10	--	--
AUG										
13...	50	40	.0	0	<50	0	10	10	--	14

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

PETERS CREEK ABOVE MARTIN CREEK AT PETERS CREEK (LAT 62 23 00 LONG 150 43 53)--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 07...	0930	136	1.0	40	33	12
JUN 23...	1330	248	10.0	23	28	19
AUG 13...	1330	85	15.5	10	8	1.8

CAPPS CREEK NEAR TYONEK (LAT 61 19 46 LONG 151 37 26)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 09...	1400	31	50	6.9	1.0	20	15	--	17	0	5.4
APR 14...	1155	5.5	70	7.1	1.0	20	1	12.5	27	0	7.5
JUL 02...	1200	103	17	6.6	7.0	10	25	11.5	6	0	--
AUG 20...	1130	22	45	--	10.5	30	2	10.9	19	0	5.9

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 09...	.9	2.1	.6	24	0	4.8	4.0	.1	.1	14
APR 14...	2.1	3.5	.7	40	0	5.1	3.1	.5	.1	17
JUL 02...	--	--	--	8	--	3.4	--	--	--	--
AUG 20...	1.0	2.0	.5	25	--	--	3.3	.6	.1	13

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 09...	38	41	.24	.23	.02	.24	.26	.50	.09	.00
APR 14...	58	56	.33	.30	.04	--	--	--	.01	.04
JUL 02...	--	--	--	--	--	--	--	--	--	--
AUG 20...	38	39	.10	.09	.00	.05	.05	.15	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CAPPS CREEK NEAR TYONEK (LAT 61 19 46 LONG 151 37 26)--Continued

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT 09...	1400	1300	2	<100	10	10	20	2700	380	<100
APR 14...	1155	80	1	100	<10	0	10	810	240	<100
AUG 20...	1130	140	0	0	<10	10	<10	850	340	<100

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
OCT 09...	130	80	.1	1	100	0	<10	10	.03	3.4
APR 14...	60	60	.1	0	<50	0	<10	0	--	--
AUG 20...	70	60	.1	1	<50	0	<10	0	--	3.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 09...	1400	31	1.0	15	92	7.7	45
APR 14...	1155	5.5	1.0	1	9	.13	--
JUL 02...	1200	103	7.0	25	96	27	--
AUG 20...	1130	22	10.5	2	1	.06	--

BISHOP CREEK NEAR TYONEK (LAT 61 18 23 LONG 151 30 27)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT 09...	1500	23	44	6.9	1.5	10	1	--	15	0	4.8
APR 14...	0930	4.0	74	7.3	1.0	--	--	12.9	--	--	--
JUL 02...	1330	18	41	6.7	11.0	20	2	10.5	14	0	--
AUG 20...	1300	16	48	--	12.0	20	<1	10.4	17	0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

BISHOP CREEK NEAR TYONEK (LAT 61 18 23 LONG 151 30 27)--Continued

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 09...	.7	2.7	.4	20	0	4.0	2.8	.7	.0	12
APR 14...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	20	--	6.4	--	--	--	--
AUG 20...	--	--	--	24	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 09...	41	35	.25	.27	.01	.20	.21	.46	.01	.00
APR 14...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT 09...	1500	170	1	<100	10	10	10	360	160	<100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT 09...	30	10	.0	1	100	0	<10	20	<.01	2.3

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 09...	1500	23	1.5	1	4	.25
JUL 02...	1330	18	11.0	2	3	.15
AUG 20...	1300	16	12.0	<1	1	.04

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUITNA RIVER BELOW WOLVERINE FORK NEAR TYONEK (LAT 61 11 52 LONG 151 39 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
09...	1300	74	40	7.1	.5	2	1	--	14	2	3.0
APR											
14...	1300	11	54	7.2	1.0	--	--	11.1	--	--	--
JUL											
02...	1100	97	21	7.7	8.0	10	5	11.2	12	3	--
AUG											
20...	1035	39	39	--	9.5	10	<1	10.7	14	0	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
09...	1.2	2.0	.4	15	0	1.9	3.7	.8	.0	14
APR										
14...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	11	--	.4	--	--	--	--
AUG										
20...	--	--	--	20	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT										
09...	33	33	.02	.02	.02	.06	.08	.10	.00	.00
APR										
14...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT										
09...	1300	120	0	<100	10	10	10	150	50	100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT										
09...	20	10	.0	0	50	0	<10	70	.01	1.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUITNA RIVER BELOW WOLVERINE FORK NEAR TYONEK (LAT 61 11 52 LONG 151 39 20)--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 09...	1300	74	.5	1	8	1.6
JUL 02...	1100	97	8.0	5	7	1.8
AUG 20...	1035	39	9.5	<1	1	.11

CHUITNA RIVER ABOVE CHUIT CREEK NEAR TYONEK (LAT 61 09 16 LONG 151 30 11

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 09...	0900	48	42	7.2	.0	5	1	--	16	0	4.7
APR 08...	1250	10	71	7.3	1.0	4	0	13.3	28	0	7.6
JUL 02...	0910	144	24	6.8	8.5	20	6	12.0	9	0	--
AUG 20...	0845	59	43	--	10.0	20	1	11.1	17	0	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 09...	1.1	2.1	.4	20	0	2.0	3.0	1.1	.0	14
APR 08...	2.3	3.7	.6	40	0	3.2	4.4	1.0	.1	16
JUL 02...	--	--	--	15	--	3.8	--	--	--	--
AUG 20...	--	--	--	23	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 09...	42	37	.14	.12	.02	.10	.12	.26	.01	.00
APR 08...	57	56	.16	.16	.03	.20	.23	.39	.00	.00
JUL 02...	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUITNA RIVER ABOVE CHUIT CREEK NEAR TYONEK (LAT 61 09 16 LONG 151 30 11)--Continued

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT 09...	0900	140	1	0	10	10	10	250	120	<100
APR 08...	1250	40	0	0	<10	0	<10	170	100	<100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT 09...	50	10	.2	1	100	0	0	50	<.01	1.8
APR 08...	20	20	.1	0	<50	0	<10	0	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 09...	0900	48	.0	1	3	.39
APR 08...	1250	10	1.0	0	1	.03
JUL 02...	0910	144	8.5	6	11	4.3
AUG 20...	0845	59	10.0	1	2	.32

CHUIT CREEK 5.4 MILES ABOVE MOUTH NEAR TYONEK (LAT 61 12 44 LONG 151 33 54)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 09...	1200	28	35	7.0	1.0	3	1	--	13	0	3.8
APR 08...	1530	2.7	52	7.1	1.0	--	--	10.4	--	--	--
JUL 02...	1000	26	30	6.8	9.5	10	2	10.8	10	0	--
AUG 20...	0930	16	37	--	9.0	10	<1	10.9	14	0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUIT CREEK 5.4 MILES ABOVE MOUTH NEAR TYONEK (LAT 61 12 44 LONG 151 33 54)--Continued

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 09...	.8	1.9	.3	16	0	2.6	3.2	.6	.0	11
APR 08...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	14	--	3.6	--	--	--	--
AUG 20...	--	--	--	20	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 09...	30	30	.02	.02	.01	.04	.05	.07	.02	.00
APR 08...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT 09...	1200	120	1	<100	10	10	0	230	90	<100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT 09...	50	10	.1	0	100	0	<10	70	.04	1.1

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 09...	1200	28	1.0	1	5	.38
JUL 02...	1000	26	9.5	2	1	.07
AUG 20...	0930	16	9.0	<1	1	.04

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUIT CREEK 1.6 MILES ABOVE MOUTH NEAR TYONEK (LAT 61 10 19 LONG 151 31 12)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT										
09...	1000	22	35	8.3	.0	4	<1	14	0	3.8

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
09...	1.0	1.9	.3	18	0	.1	2.9	1.1	.0	12

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT										
09...	36	32	.07	.06	.00	.11	.11	.18	.03	.00

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT										
09...	1000	80	0	<100	10	10	10	120	120	<100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT										
09...	30	10	.1	1	100	0	<10	60	<.01	1.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT						
09...	1000	22	.0	<1	3	.18

CHUIT CREEK AT MOUTH NEAR TYONEK (LAT 61 09 18 LONG 151 30 11)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 09...	0830	31	37	7.1	1.5	5	<1	--	13	0	4.4
APR 07...	1300	12	54	7.2	1.0	--	--	13.9	--	--	--
JUL 02...	0820	49	33	7.2	10.0	20	3	12.0	11	0	--
AUG 20...	0800	29	39	--	9.5	15	<1	11.1	14	0	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 09...	.6	2.1	.3	18	0	2.3	2.9	.9	.0	12
APR 07...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	16	--	1.6	--	--	--	--
AUG 20...	--	--	--	20	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT 09...	35	32	.07	.06	.00	.06	.06	.13	.02	.00
APR 07...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT 09...	0830	50	0	<100	10	10	<10	170	70	100

DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT 09...	50	20	.1	1	100	0	<10	80	.01	2.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CHUIT CREEK AT MOUTH NEAR TYONEK (LAT 61 09 18 LONG 151 30 11)--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT 09...	0830	31	1.5	<1	3	.25
JUL 02...	0820	49	10.0	3	2	.26
AUG 20...	0800	29	9.5	<1	1	.08

YUKON ALASKA

HEALY CREEK NEAR USIBELLI (LAT 63 53 08 LONG 148 38 20)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MAR 09...	1830	--	430	7.9	--	1	220	82	55	19	4.5	1.1
MAY 17...	1130	55	360	8.2	6.0	3	210	78	51	20	2.2	.8
AUG 17...	1530	85	--	7.8	12.0	--	--	--	--	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
MAR 09...	163	0	3.3	81	4.5	.1	3.8	--	251	.34	.00
MAY 17...	160	0	1.6	84	1.5	.1	3.6	241	244	.31	.01
AUG 17...	174	--	4.4	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
MAR 09...	1830	--	--	0	--	0	--	1	--
MAY 17...	1130	30	0	--	0	--	<10	--	0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

HEALY CREEK NEAR USIBELLI (LAT 63 53 08 LONG 148 38 20)--Continued

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
MAR 09...	0	--	2	--	0	--	2	--	10
MAY 17...	--	<10	--	220	240	<100	--	0	0

DATE	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAR 09...	--	--	--	--	0	--	0	--	20
MAY 17...	.0	0	<50	0	--	<10	--	0	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
AUG 17...	1530	85	12.0	75	17

COAL CREEK NEAR SUNTRANA (LAT 63 52 47 LONG 148 40 37)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
AUG 17...	1350	35	12.0	6	.57

CRIPPLE CREEK NEAR SUNTRANA (LAT 63 52 45 LONG 148 44 06)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
AUG 17...	1700	9.8	11.5	13	.34

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

HEALY CREEK AT SUNTRANA (LAT 63 51 10 LONG 148 50 37)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
MAR 10...	0945	66	451	8.4	.0	1	230	82	56	21	5.3	1.0
MAY 17...	1320	116	453	8.4	7.8	4	250	110	57	27	5.1	1.2
AUG 17...	1810	153	--	8.1	13.0	--	--	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAR 10...	176	0	1.1	86	5.4	.1	4.3	273	268	.39	.00
MAY 17...	178	0	1.1	96	5.4	.2	3.6	274	285	.38	.01
AUG 17...	210	--	2.6	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 10...	0945	--	--	--	--	--	--	--	10
MAY 17...	1320	1300	8	0	<10	0	10	3500	70

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR 10...	--	--	20	--	--	--	--	--	--
MAY 17...	<100	100	20	.0	0	<50	0	<10	20

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG 17...	1810	153	13.0	480	198

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEBMER 1976

YUKON ALASKA--Continued

NENANA RIVER BELOW POWERPLANT NEAR HEALY (LAT 63 52 34 LONG 148 58 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAR 09...	1600	427	320	7.0	1.0	161	26

LIGNITE CREEK NEAR HEALY (LAT 63 54 26 LONG 148 58 17)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
MAY 17...	1700	111	340	7.5	.5	25	100	35	22	12	29	3.5
AUG 18...	0830	21	620	7.8	--	25	190	63	38	24	51	5.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAY 17...	93	0	4.7	45	42	.2	5.7	206	206	.35	.01
AUG 18...	160	--	4.1	81	73	.3	11	359	364	.20	.00

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAY 17...	1700	34000	--	1000	--	<10	--	80	--	150	100000	40
AUG 18...	0830	--	0	--	100	--	0	--	10	--	--	100

DATE	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAY 17...	100	--	2500	240	.0	0	250	--	<10	500	--
AUG 18...	--	0	--	330	--	--	--	16	--	--	10

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG 18...	0830	21	156	8.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA

15910200 HAPPY CREEK AT HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 50 LONG 148 49 50)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC- ATION (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL								
07...	2020	--	--	E18	21	10.0	10.0	26
SEP								
16...	1650	7.0	2.0	--	--	--	--	--
16...	1720	--	--	--	55	2.5	--	--

E Estimated Note.--Cross-section locations from left bank looking downstream.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M
SEP						
16...	1650	71	.692	1.92	.248	2.32

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	_ORGANISM__NAME	_COMMON__NAME	SAMPLING METHOD
SEP 16	71	CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
		.CHLOROPHYCEAE		
		..CHLOROCOCCALES		
		...OOCYSTACEAE		
		O ....ANKISTRODESMUS		
		..OEDOGONIALES		
		...OEDOGONIACEAE		
		O ....BULBOCHAETE		
		E ....OEDOGONIUM		
		..TETRASPORALES		
		...PALMELLACEAE		
		O ....ASKENASYELLA		
		O ....GLOEOCYSTIS		
		...TETRASPORACEAE		
		O ....TETRASPORA		
		..ULOTRICHALES		
		...CHAETOPHORACEAE		
		E ....STIGEOCLONIUM		
		...MICROSPORACEAE		
		O ....CYLINDROCAPSA		
		..ZYGNEMATALES		
		...DESMIDIACEAE	PLACODERM DESMIDS	
		O ....CLOSTERIUM		
		O ....COSMARIUM		
		O ....EUASTRUM		
		O ....SPONDYLOSIUM		
		O ....STAURASTRUM		
		O ....XANTHIDIUM		
		...ZYGNEMATACEAE		
		E ....MOUGEOTIA		
		O ....SPIROGYRA		
		O ....ZYGNEMA		
		CHRYSOPHYTA		
		.BACILLARIOPHYCEAE	DIATOMS	
		..PENNALES	PENNATE	
		...ACHNANTHACEAE		
		E ....ACHNANTHES		
		...CYMBELLACEAE		
		O ....CYMBELLA		
		...DIATOMACEAE		
		O ....DIATOMA		
		...EUNOTIACEAE		
		O ....EUNOTIA		
		...FRAGILARIACEAE		
		O ....FRAGILARIA		
		O ....SYNEDRA		
		...GOMPHONEMATACEAE		
		O ....GOMPHONEMA		
		...NAVICULACEAE	NAVICULOID	

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

*15910200 HAPPY CREEK AT HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 50 LONG 148 49 50)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON--Continued from previous page.	
SEP 16	71	O ....NAVICULA	
		O ....PINNULARIA	
		...NITZSCHIACEAE	
		O ....NITZSCHIA	
		...TABELLARIACEAE	
		F ....TABELLARIA	
		.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE
		..CHRYSOMONADALES	
		...OCHROMONADACEAE	
		O ....DINOBRYON	
		.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
		..HETEROCOCCALES	
		...CHLOROTHECIACEAE	
		O ....OPHIOCYTIUM	
		CYANOPHYTA	BLUE-GREEN ALGAE
		.MYXOPHYCEAE	
		..CHROOCOCCALES	COCCOID
		...CHROOCOCCACEAE	
		O ....ANACYSTIS	
		..OSCILLATORIALES	FILAMENTOUS
		...OSCILLATORIACEAE	
		O ....LYNGBYA	

NOTE: F - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

BENTHIC INVERTEBRATES

DATE	TIME	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME	_COMMON__NAME	COUNT	SAMPLING METHOD
JUL 7	2020	40	ARTHROPODA			DRIFT NET
			.ARACHNOIDEA			
			..HYDRACARINA	WATER MITES		
			...UNKNOWN FAMILY			
			....UNKNOWN GENUS		6	
			.CRUSTACEA			
			..PODOCOPA	SEED SHRIMPS		
			....UNKNOWN GENUS		10	
			.INSECTA			
			..COLEOPTERA	BEETLES		
			...DYTISCIDAE	PREDACEOUS DIVING		
			....RHANTUS		1	
			..DIPTERA			
			...CHIRONOMIDAE	MIDGES		
			....CORYNONEURA		3	
			....CRICOTOPUS		43	
			....DIAMESA		1	
			....EUKIEFFERIELLA		29	
			....MICROPSECTRA		10	
			....ORTHOCLADIUS		11	
			....PARACLADOPELMA		1	
			....PENTANEURA		18	
			....THIENEMANNIELLA		4	
			...SIMULIIDAE	BLACK FLIES		
			....SIMULIUM		12	
			..EPHEMEROPTERA	MAY FLIES		
			...BAETIDAE			
			....UNKNOWN GENUS		39	
			..PLECOPTERA	STONEFLIES		
			...UNKNOWN FAMILY			
			....UNKNOWN GENUS		1	
			..TRICHOPTERA	CADDIS FLIES		
			...BRACHYCENTRIDAE			
			....BRACHYCENTRUS		1	
			..DIPTERA			
			...CHIRONOMIDAE	MIDGES		
			....PSECTROCLADIUS		5	
			TOTAL		195	

* Crest-stage partial-record station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

15910200 HAPPY CREEK AT HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 50 LONG 148 49 50)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 16	71	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....MICROPSECTRA		8	
		....PENTANEURA		7	
		..PLECOPTERA	STONEFLIES		
		...TAENIOPTERYGIDAE			
		....BRACHYPTERA		15	
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....PSECTROCLADIUS		4	
		MOLLUSCA			
		.GASTROPODA	SNAILS		
		..BASOMMATOPHORA			
		...ANCYLIDAE	FRESHWATER LIMPETS		
		....UNKNOWN GENUS		1	
		...PHYSIDAE	POND SNAILS		
		....PHYSA		1	
		..MESOGASTROPODA			
		...VALATIDAE			
		....VALVATA		24	
		TOTAL		60	

BENTHIC INVERTEBRATES

DATE	TIME	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 16	1720	30	ARTHROPODA			DRIFT NET
			.ARACHNOIDEA			
			..HYDRACARINA	WATER MITES		
			...UNKNOWN FAMILY			
			....UNKNOWN GENUS		1	
			.INSECTA			
			..DIPTERA			
			...EMPIDIDAE	DANCE FLIES		
			....HEMERODROMIA		1	
			..PLECOPTERA	STONEFLIES		
			...NEMOURIDAE			
			....NEMOURA		1	
			TOTAL		3	

HAPPY CREEK BELOW HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 51 LONG 148 49 50)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC-ATION (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL								
07...	1800	E20	E3.0	--	21	11.0	9.8	30
07...	1802	E20	E10.0	--	--	--	--	28
07...	1804	E20	E17.0	--	--	--	--	32
SEP								
16...	1530	12	4.0	--	--	--	--	--
16...	1600	--	--	E4.0	59	2.5	--	--

E Estimated

Note.--Site downstream from oil spill and sewage overflow which occurred in 1970-71

Cross-section locations from left bank looking downstream

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

HAPPY CREEK BELOW HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 51 LONG 148 49 50)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M
SEP						
16...	1530	71	.308	.538	.032	.114

PERIPHYTON

DATE	STREAM WIDTH	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	SAMPLING METHOD
SEP				CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE
16	12	4	71	.CHLOROPHYCEAE		STRIP
				..CHLOROCOCCALES		
				...OOCYSTACEAE		
				O ....ANKISTRODESMUS		
				..OEDOGONIALES		
				...OEDOGONIACEAE		
				O ....BULBOCHAETE		
				O ....OEDOGONIUM		
				..TETRASPORALES		
				...TETRASPORACEAE		
				O ....TETRASPORA		
				..ULOTRICHALES		
				...CHAETOPHORACEAE		
				O ....STIGEOCLONIUM		
				..ZYGNEMATALES		
				...DESMIDIACEAE	PLACODERM DESMIDS	
				O ....CLOSTERIUM		
				O ....COSMARIUM		
				O ....EUASTRUM		
				O ....SPONDYLOSIUM		
				O ....STAURASTRUM		
				...ZYGNEMATACEAE		
				O ....MOUGEOTIA		
				CHRYSOPHYTA		
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				E ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...EUNOTIACEAE		
				O ....EUNOTIA		
				...FRAGILARIACEAE		
				O ....SYNEDRA		
				...GOMPHONEMATACEAE		
				O ....GOMPHONEMA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				...NITZSCHIACEAE		
				E ....NITZSCHIA		
				...TABELLARIACEAE		
				O ....TABELLARIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..CHROOCOCCALES	COCCOID	
				...CHROOCOCCACEAE		
				O ....ANACYSTIS		
				..OSCILLATORIALES	FILAMENTOUS	
				...OSCILLATORIACEAE		
				O ....LYNGBYA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

HAPPY CREEK BELOW HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 51 LONG 148 49 50)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME_	_COMMON__NAME_	COUNT	SAMPLING METHOD
JUL 7	50	ARTHROPODA			DRIFT NET
		.ARACHNOIDEA			
		..HYDRACARINA	WATER MITES		
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		5	
		.CRUSTACEA			
		..PODOCOPA	SEED SHRIMPS		
		....UNKNOWN GENUS		4	
		.INSECTA			
		..COLEOPTERA	BEETLES		
		...DYTISCIDAE	PREDACEOUS DIVING		
		....RHANTUS		1	
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....CORYNONEURA		2	
		....CRICOTOPUS		31	
		....EUKIEFFERIELLA		22	
		....LASIODIAMESA		1	
		....MICROPSECTRA		7	
		....ORTHOCLADIUS		14	
		....PENTANEURA		12	
		....PSEUDODIAMESA		2	
		....THIENEMANNIELLA		3	
		...SIMULIIDAE	BLACK FLIES		
		....SIMULIUM		44	
		..EPHEMEROPTERA	MAY FLIES		
		...BAETIDAE			
		....BAETIS		146	
		..PLECOPTERA	STONEFLIES		
		...CHLOROPERLIDAE			
		....ALLOPERLA		1	
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		1	
		..TRICHOPTERA	CADDIS FLIES		
		...BRACHYCENTRIDAE			
		....BRACHYCENTRUS		2	
		...LIMNEPHILIDAE			
		....LIMNEPHILUS		1	
		TOTAL		299	

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	_ORGANISM__NAME_	_COMMON__NAME_	COUNT	SAMPLING METHOD
SEP 16	12	4	71	ANNELIDA			ROCK BASKET WITH NET ARTIFICIAL SUBSTITUTE
				.OLIGOCHAETA	AQUATIC EARTHWORMS		
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				ARTHROPODA			
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				....UNKNOWN GENUS		1	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....CORYNONEURA		14	
				....CRICOTOPUS		7	
				....EUKIEFFERIELLA		6	
				....MICROPSECTRA		11	
				....PENTANEURA		17	
				..PLECOPTERA	STONEFLIES		
				...TAENIOPTERYGIDAE			
				....BRACHYPTERA		24	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		2	
				...LIMNEPHILIDAE			
				....PSYCHOGLYPHA		1	
				...RHYACOPHILIDAE			
				....RHYACOPHILA		1	
				TOTAL		85	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

HAPPY CREEK BELOW HAPPY VALLEY CAMP NEAR SAGWON (LAT 69 08 51 LONG 148 49 50)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME	_COMMON__NAME	COUNT	SAMPLING METHOD
SEP 16	15	ANNELIDA			DRIFT NET
		.OLIGOCHAETA	AQUATIC EARTHWORMS		
		..UNKNOWN ORDER			
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		1	
		ARTHROPODA			
		.ARACHNOIDEA			
		..HYDRACARINA	WATER MITES		
		....UNKNOWN GENUS		23	
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....CRICOTOPUS		3	
		....EUKIEFFERIELLA		5	
		....PENTANEURA		1	
		....RHEOTANYTARSUS		2	
		NEMATODA	NEMATODES		
		.UNKNOWN CLASS			
		..UNKNOWN ORDER			
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		2	
		TOTAL		37	

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA

PATCHING LAKE NEAR KETCHIKAN (LAT 55 36 54 LONG 131 29 11)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV										
17...	1330	.5	16	6.3	5.0	--	12.4	--	--	--
17...	1331	3.5	16	6.3	5.0	--	12.1	--	--	--
17...	1332	6.5	16	6.3	5.0	--	12.0	--	--	--
17...	1333	10	16	6.2	5.0	--	11.6	--	--	--
17...	1338	65	14	6.2	5.0	--	11.5	--	--	--
17...	1340	88	14	6.2	5.0	--	11.6	--	--	--
17...	1345	2.0	16	6.3	5.0	15	12.4	6	1	2.2

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.2	.7	.2	7	0	5.6	2.2	1.3	.0	1.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	12	11	.01	.01	.00	.14	.14	.15	.00	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
NOV					
17...	1345	100	0	7.8	.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

HECKMAN LAKE NEAR KETCHIKAN (LAT 55 34 32 LONG 131 31 07)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV										
17...	1400	.5	17	6.8	5.5	--	12.0	--	--	--
17...	1401	3.5	16	6.5	5.5	--	12.0	--	--	--
17...	1402	6.5	14	6.3	5.5	--	12.0	--	--	--
17...	1403	10	14	6.2	5.5	--	12.1	--	--	--
17...	1404	13	14	6.1	5.5	--	11.9	--	--	--
17...	1410	88	14	6.3	5.5	--	11.6	--	--	--
17...	1415	3.0	15	6.5	5.5	20	12.0	6	0	2.1

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.1	.7	.2	7	0	3.5	2.0	1.3	.0	1.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	11	11	.01	.01	.00	.04	.04	.05	.00	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
NOV					
17...	1415	110	0	3.8	.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

KLAWAK LAKE NEAR KLAWOCK (LAT 55 32 16 LONG 133 01 17)

DATE	TIME	DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
NOV									
17...	1200	3.0	36	5.5	25	17	2	4.5	1.3
17...	1202	.5	38	5.5	--	--	--	--	--
17...	1204	3.5	36	5.5	--	--	--	--	--
17...	1210	33	36	5.5	--	--	--	--	--
17...	1216	82	35	5.5	--	--	--	--	--

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NOV									
17...	2.0	2.5	18	2.6	3.3	.1	1.7	18	27
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)
NOV								
17...	.01	.01	.00	.12	.12	.13	.00	.01
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
NOV					
17...	1200	500	20	4.6	.3

SALMON LAKE NEAR KASAAN (LAT 55 34 22 LONG 132 40 36)

DATE	TIME	DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
NOV										
17...	1245	.5	23	6.7	6.0	--	--	--	--	--
17...	1246	3.5	23	6.6	6.0	--	--	--	--	--
17...	1248	10	23	6.5	6.0	--	--	--	--	--
17...	1250	33	23	6.5	6.0	--	--	--	--	--
17...	1253	88	22	6.5	6.0	--	--	--	--	--
17...	1300	3.0	23	6.6	6.0	20	8	0	3.1	.1

SALMON LAKE NEAR KASAAN (LAT 55 34 22 LONG 132 40 36)--Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	1.8	.1	12	0	4.8	1.6	1.7	.0	1.6	19

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
NOV									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	16	.07	.03	.00	.04	.04	.11	.00	.00

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
NOV					
17...	1300	70	0	4.3	.3

15087650 - CASCADE CREEK AT SITKA (LAT 57 04 27 LONG 135 21 48)

DATE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MAY									
27...	1100	1/9815	7	10	1	3.2	.4	2.7	.2

1/ Alaska Department of Environmental Conservation

DATE	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
MAY								
27...	10	2.4	4.0	.0	2.4	21	.07	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHEAST ALASKA--Continued

15087650 - CASCADE CREEK AT SITKA (LAT 57 04 27 LONG 135 21 48)--Continued

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
27...	1100	4	0	0	0	6	40	9	0	0	0	10

15087800 - BLUE LAKE AT OUTLET NEAR SITKA (LAT 57 03 48 LONG 135 12 02)

DATE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
MAY									
27...	1400	1/ 9815	45	3	16	2	5.4	.6	2.3

1/ Alaska Department of Environmental Conservation

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
MAY									
27...	.1	17	3.7	4.0	.0	2.7	31	.84	.00

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY												
27...	1400	0	0	0	0	1	20	4	0	0	0	0

HIDDEN FALLS LAKE NEAR SITKA (LAT 57 12 57 LONG 134 52 29)

DATE	TIME	DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
SEP										
06...	1100	1.0	23	7.4	10.0	--	11.1	--	--	--
06...	1345	20	23	7.4	9.0	3	11.5	8	0	3.0
06...	1347	39	23	--	7.0	--	11.2	--	--	--

HIDDEN FALLS LAKE NEAR SITKA (LAT 57 12 57 LONG 134 52 29)--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
SEP										
06...	--	--	--	--	--	--	--	--	--	--
06...	.0	.9	.5	12	0	.8	1.9	.8	.0	.9
06...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
SEP										
06...	--	--	--	--	--	--	--	--	--	--
06...	28	16	.03	.47	.01	.22	.23	.26	.03	.00
06...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
SEP			
06...	1345	20	10

DATE	TIME	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
SEP		
06...	1100	1.2
06...	1345	1.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
SOUTH-CENTRAL ALASKA

CANYON SLOUGH SITE 1 NEAR VALDEZ (LAT 61 03 11 LONG 146 04 39)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
APR 07...	1600	1.0	85	2.5	2.0	10.0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	TIME	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME	_COMMON__NAME	COUNT	SAMPLING METHOD
APR 7	1600	60	ARTHROPODA			DRIFT NET
			.INSECTA			
			..DIPTERA			
			...CHIRONOMIDAE	MIDGES		
			....BRILLIA		1	
			....CORYNONEURA		5	
			....ORTHOCLADIUS		10	
			..EPHEMEROPTERA	MAY FLIES		
			...BAETIDAE			
			....UNKNOWN GENUS		13	
			...HEPTAGENIIDAE			
			....CINYGMULA		1	
			..PLECOPTERA	STONEFLIES		
			...NEMOURIDAE			
			....NEMOURA		1	
			TOTAL		31	

CANYON SLOUGH SITE 2 NEAR VALDEZ (LAT 61 03 14 LONG 146 04 58)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
APR 08...	1000	4.5	2.5	10.9

CANYON SLOUGH SITE 4 NEAR VALDEZ (LAT 61 03 13 LONG 146 05 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
APR 08...	0900	14	90	6.9	2.0	5	11.3	39	16	14

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR 08...	.9	1.5	1.3	28	0	5.6	16	2.4	.1	4.6

CANYON SLOUGH SITE 4 NEAR VALDEZ (LAT 61 03 13 LONG 146 05 20) -- Continued

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
APR 08...	53	55	.26	.26	.02	.02	.04	.30	.00	.00

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
APR 08...	0900	40	0	0	<10	0	10	20	20

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 08...	<100	10	0	.1	0	<50	0	<10	0	.6

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	TIME	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME	_COMMON__NAME	COUNT	SAMPLING METHOD
APR 8	0820	60	ARTHROPODA			DRIFT NET
			.INSECTA			
			..DIPTERA			
			...CHIRONOMIDAE	MIDGES		
			....BRILLIA		2	
			....CORYNONEURA		6	
			....CRICOTOPUS		35	
			....DIAMESA		28	
			....ORTHOCLADIUS		21	
			....PSEUDODIAMESA		4	
			..LEPIDOPTERA			
			...PYRALIDIDAE			
			....NYMPHULA		1	
			..PLECOPTERA	STONEFLIES		
			...NEMOURIDAE			
			....NEMOURA		1	
			...UNKNOWN FAMILY			
			....UNKNOWN GENUS		4	
			TOTAL		102	

CANNERY LAKE NORTH END NEAR ELLAMAR (LAT 61 01 33 LONG 147 30 08)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (IN)	TRANSPARENCY (SECCHI DISK) (M)	DISSOLVED OXYGEN (MG/L)
AUG								
14...	1005	.5	21	6.9	14.5	378	9.6	9.5
14...	1006	3.3	21	6.8	14.5	--	--	9.6
14...	1007	6.6	22	6.8	13.0	--	--	10.1
14...	1008	9.8	22	6.6	12.5	--	--	10.3
14...	1009	13	21	6.4	12.0	--	--	10.6
14...	1010	16	21	6.3	11.5	--	--	10.8
14...	1011	20	22	6.3	10.5	--	--	11.3
14...	1012	23	24	6.2	9.5	--	--	12.1
14...	1013	26	25	6.1	7.5	--	--	11.4
14...	1014	30	25	6.0	7.5	--	--	11.1

CANNERY LAKE SOUTH END NEAR ELLAMAR (LAT 61 01 00 LONG 147 29 55)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
14...	1106	.5	23	6.7	14.5	10.4
14...	1107	3.3	23	6.7	14.5	10.5
14...	1108	6.6	23	6.8	13.0	11.4
14...	1109	9.8	24	6.7	12.5	11.5
14...	1110	16	28	6.4	10.5	11.0
14...	1111	23	33	6.2	6.5	8.0
14...	1112	26	39	6.1	5.5	6.1
14...	1113	30	44	6.0	5.5	2.6
14...	1114	33	54	6.0	5.0	.0
14...	1115	36	69	5.8	5.0	.0
14...	1116	39	153	6.0	5.0	.0

CANNERY LAKE MIDWEST AREA NEAR ELLAMAR (LAT 61 01 15 LONG 147 30 20)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TRANSPARENCY (SECCHI DISK) (IN)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG												
14...	1035	.5	23	6.8	14.5	--	--	10.1	--	--	--	--
14...	1036	3.3	23	6.8	14.0	--	--	10.4	--	--	--	--
14...	1037	6.6	23	6.8	13.0	--	--	10.8	--	--	--	--
14...	1038	9.8	22	6.7	12.5	--	--	10.9	--	--	--	--
14...	1039	13	22	6.6	12.0	--	--	11.3	--	--	--	--
14...	1040	16	23	6.4	11.5	--	--	11.6	--	--	--	--
14...	1041	20	23	6.4	10.0	--	--	12.2	--	--	--	--
14...	1042	23	26	6.2	8.5	--	--	11.9	--	--	--	--
14...	1043	26	28	6.2	7.0	--	--	10.4	--	--	--	--
14...	1044	30	34	6.0	6.0	--	--	8.2	--	--	--	--
14...	1045	33	36	5.9	5.5	--	--	6.8	--	--	--	--
14...	1046	39	39	5.8	5.5	--	--	5.2	--	--	--	--
14...	1530	10	22	6.7	12.5	3	378	10.9	10	0	3.8	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CANNERY LAKE MIDWEST AREA NEAR ELLAMAR (LAT 61 01 15 LONG 147 30 20)--Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.4	.1	12	0	3.8	2.4	1.0	.0	.9	15	.02	.00

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
AUG				
14...	1530	0	0	1.1

CANNERY CREEK NEAR ELLAMAR (LAT 61 01 08 LONG 147 30 29)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
FEB								
18...	1100	1.4	27	6.5	.5	20	0	14.2
MAR								
12...	1030	2.7	30	6.0	.5	20	0	12.0

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB									
18...	13	0	4.2	.7	1.3	.2	16	0	8.1
MAR									
12...	14	0	4.6	.5	1.0	.2	18	0	29

SOUTH CENTRAL-ALASKA -- Continued

CANNERY CREEK NEAR ELLAMAR (LAT 61 01 08 LONG 147 30 29) -- Continued

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
FEB 18...	3.0	1.4	.0	1.6	15	22	.35	.00
MAR 12...	2.4	.8	.1	2.0	20	21	.07	.00

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
FEB 18...	1100	30	10
MAR 12...	1030	10	20

DATE	TIME	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
MAR 12...	1030	2.5	.1

JEAN CREEK NEAR COOPER LANDING (LAT 60 29 04 LONG 150 06 55)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
FEB 10...	1230	2.9	267	7.8	E.0	.0	3	1	14.2

E Estimated

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB 10...	120	2	44	3.5	3.7	1.0	144	0	3.7

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
FEB 10...	12	3.3	.1	8.2	160	151	.87	.01

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

JEAN CREEK NEAR COOPER LANDING (LAT 60 29 04 LONG 150 06 55) -- Continued

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
FEB				
10...	1230	20	10	1.7

HIDDEN CREEK NEAR COOPER LANDING (LAT 60 27 30 LONG 150 11 45)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
FEB								
10...	1105	5.4	178	7.4	.0	2	0	13.4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
FEB									
10...	83	0	27	3.7	3.4	1.3	105	0	6.7

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
FEB								
10...	6.5	2.3	.1	4.7	105	101	.08	.00

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
FEB					
10...	1105	10	0	3.7	.1

LAKE HIDEAWAY AT O'MALLEY ROAD NEAR ANCHORAGE (LAT 61 07 26 LONG 149 44 28)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
10...	0800	.0	129	--	5.5	--	--	--	--	--	--	--
10...	0801	3.0	129	--	5.5	--	--	--	--	--	--	--
10...	0802	7.0	129	--	5.5	--	--	--	--	--	--	--
10...	0803	10	131	--	5.5	--	--	--	--	--	--	--
10...	0804	13	131	--	5.5	--	--	--	--	--	--	--
10...	1145	--	129	7.8	5.5	10	1	#11	66	9	19	4.5

# Non-ideal colony count

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	72	--	--	--	--	--	--	--	--	--
10...	--	--	69	--	--	--	--	--	--	--	--	--
10...	--	--	69	--	--	--	--	--	--	--	--	--
10...	--	--	67	--	--	--	--	--	--	--	--	--
10...	2.0	.5	69	0	1.7	7.7	1.7	.1	.9	79	70	.02

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.01	.04	.02	.86	.92	.90	.94	.92	.03	.01	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT												
10...	1145	0	0	40	10	2	0	5	6.0	.000	.000	.9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

15274700 SAND LAKE NEAR SPENARD (LAT 61 09 03 LONG 149 58 25)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT						
07...	0800	.5	52	6.5	9.5	8.1
07...	0801	3.5	51	6.1	9.5	8.1
07...	0802	7.0	52	6.0	9.5	8.1
07...	0803	10	51	6.0	9.5	8.2
07...	0804	13	51	6.0	9.5	8.2
07...	0805	16	51	5.9	9.0	8.2
07...	0806	20	51	5.9	9.0	8.3
07...	0807	23	51	5.9	9.0	8.3
07...	0808	26	51	6.0	9.0	8.0

SAND LAKE AT EAST END NEAR SPENARD (LAT 61 09 12 LONG 149 56 29)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
07...	0800	.5	57	9.5	--	--	52	--	--	--	--
07...	0801	3.5	59	9.5	--	--	>100	--	--	--	--
07...	0803	10	--	9.5	--	--	--	--	--	--	--
07...	0804	13	--	9.5	--	--	--	--	--	--	--
07...	0805	16	--	9.0	--	--	--	--	--	--	--
07...	0806	20	60	9.0	--	--	#5	--	--	--	--
07...	0809	30	58	9.0	--	--	#7	--	--	--	--
07...	1300	--	58	9.5	5	1	--	19	6	4.2	2.0

# Non-ideal colony count#

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT											
07...	--	--	15	--	--	--	--	--	--	--	--
07...	--	--	15	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	15	--	--	--	--	--	--	--	--
07...	--	--	14	--	--	--	--	--	--	--	--
07...	3.2	1.7	15	0	6.5	4.4	.1	.1	38	30	.04

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

SAND LAKE AT EAST END NEAR SPENARD (LAT 61 09 12 LONG 149 57 29)--Continued

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	.04	.09	.08	.27	.30	.36	.38	.40	.01	.01	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT										
07...	1300	0	1	110	60	5	6	.000	.000	1.2

SAND LAKE (MIDDLE) NEAR SPENARD (LAT 61 09 06 LONG 149 57 52)

DATE	TIME	DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT						
07...	0800	.5	48	6.9	9.5	8.5
07...	0801	3.5	48	6.9	9.5	8.4
07...	0802	6.0	48	6.4	9.5	8.4
07...	0803	10	48	6.3	9.0	8.4
07...	0804	13	48	6.3	9.0	8.4
07...	0805	16	48	6.3	9.0	8.4
07...	0806	20	48	6.3	9.0	8.4
07...	0807	23	48	6.2	9.0	8.4
07...	0808	26	48	6.3	9.0	8.4
07...	0809	30	48	6.2	9.0	8.4
07...	0810	33	48	6.2	9.0	8.4

CAMPBELL LAKE NEAR SPENARD (LAT 61 08 00 LONG 149 56 50)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT												
16...	0800	.5	95	7.4	3.5	--	--	--	--	--	--	--
16...	0801	3.0	95	7.4	3.5	--	--	--	--	--	--	--
16...	0802	7.0	95	7.3	3.5	--	--	--	--	--	--	--
16...	0803	10	95	7.3	3.5	--	--	--	--	--	--	--
16...	0804	13	95	7.2	3.5	--	--	--	--	--	--	--
16...	0805	16	95	7.2	3.5	--	--	--	--	--	--	--
16...	1000	--	105	7.3	3.5	15	4	44	11	14	2.3	1.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.3	40	0	3.2	12	1.1	.0	7.0	65	58	.24

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.16	.01	.01	.16	.21	.17	.22	.41	.02	.01	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT												
16...	1000	0	<1	520	80	33	40	40	2.6	.000	.000	1.1

CONNORS LAKE MIDDLE NEAR ANCHORAGE (LAT 61 10 01 LONG 149 55 56)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
APR							
15...	1100	251	6.3	2.0	100	16	31

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED IRON (FE) (UG/L)	TIME	DISSOLVED ORGANIC CARBON (C) (MG/L)
APR									
15...	6.5	5.9	108	87	20	9.0	4100	1100	17

CONNORS LAKE NEAR ANCHORAGE (LAT 61 10 03 LONG 149 55 44)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
MAY						
19...	1445	67	6.7	6.5	67	21

CAMPBELL POINT LAKE NEAR ANCHORAGE (LAT 61 09 49 LONG 150 01 20)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TRANSPARENCY (SECCHI DISK) (M)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
07...	0000	.5	35	6.8	8.0	--	--	--	--	--	--	--
07...	0001	3.0	35	6.7	8.0	--	--	--	--	--	--	--
07...	0002	7.0	35	6.7	8.0	--	--	--	--	--	--	--
07...	0003	10	35	6.8	8.0	--	--	--	--	--	--	--
07...	0004	13	35	6.7	8.0	--	--	--	--	--	--	--
07...	1000	--	35	6.7	8.0	15	1	3.5	#6	9	1	2.0

Non-ideal colony count

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

CAMPBELL POINT LAKE NEAR ANCHORAGE (LAT 61 09 49 LONG 150 01 20)--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT												
07...	--	--	--	10	--	2.5	--	--	--	--	--	--
07...	--	--	--	9	--	2.9	--	--	--	--	--	--
07...	--	--	--	9	--	2.9	--	--	--	--	--	--
07...	--	--	--	9	--	2.3	--	--	--	--	--	--
07...	--	--	--	9	--	2.9	--	--	--	--	--	--
07...	.9	1.9	2.4	9	0	2.9	2.6	3.4	.1	.1	29	19

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.19	.16	.04	.02	.77	.85	.81	.87	1.0	.02	.01	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT								
07...	1000	0	40	0	6.1	.000	.000	1.2

15274990 GOOSE LAKE NEAR ANCHORAGE (LAT 61 11 47 LONG 149 49 03)

DATE	TIME	DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT											
08...	0800	.5	106	7.5	--	--	--	--	--	--	--
08...	0801	3.0	104	7.5	--	--	--	--	--	--	--
08...	0802	7.0	--	7.5	--	--	--	--	--	--	--
08...	0803	10	104	7.5	--	--	--	--	--	--	--
08...	0804	13	--	7.5	--	--	--	--	--	--	--
08...	1200	--	104	7.5	12	1	#2	48	0	13	3.8

# Non-ideal colony count

SOUTH-CENTRAL ALASKA--Continued

15274990 GOOSE LAKE NEAR ANCHORAGE (LAT 61 11 47 LONG 149 49 03)--Continued

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT											
08...	--	--	55	--	--	--	--	--	--	--	--
08...	--	--	58	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	55	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	3.1	.5	58	0	1.3	2.6	.1	.4	74	53	.02

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.02	.06	.04	1.2	1.2	1.3	1.2	1.3	.01	.01	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT												
08...	1200	0	<1	80	60	4	6	5	9.4	.000	.000	1.1

OTTER LAKE AT FORT RICHARDSON (LAT 61 17 22 LONG 149 44 14)

DATE	TIME	DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT											
08...	0800	.5	--	7.5	--	--	--	--	--	--	--
08...	0801	3.0	--	7.5	--	--	--	--	--	--	--
08...	0802	7.0	--	7.5	--	--	--	--	--	--	--
08...	0803	10	--	7.5	--	--	--	--	--	--	--
08...	0804	13	--	7.5	--	--	--	--	--	--	--
08...	0805	16	--	7.5	--	--	--	--	--	--	--
08...	0930	--	276	7.5	5	1	#3	140	7	42	8.3

# Non-ideal colony count

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

OTTER LAKE AT FORT RICHARDSON (LAT 61 17 22 LONG 149 44 14) -- Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	156	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	156	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	155	--	--	--	--	--	--	--	--
08...	2.4	.6	154	3	14	3.8	.1	8.3	167	159	.03

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.03	.08	.09	1.1	.68	1.2	.77	1.2	.02	.02	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT												
08...	0930	1	<1	40	20	2	0	5	4.0	1.30	.200	1.0

BEAR CREEK AT KARLUK LAKE NEAR LARSEN BAY (LAT 57 23 37 LONG 154 02 00)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT										
04...	1400	E.50	100	7.3	6.5	20	10.4	36	2	9.5

E Estimated

BEAR CREEK AT KARLUK LAKE NEAR LARSEN BAY (LAT 57 23 37 LONG 154 02 00)--Continued

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
04...	2.9	5.3	.3	41	0	3.3	4.7	5.9	.1	9.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT										
04...	61	59	.24	.24	.02	.21	.23	.47	.01	.00

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT				
04...	1400	10	10	5.9

O'MALLEY RIVER BELOW LAKE NEAR LARSEN BAY (LAT 57 16 27 LONG 153 59 06)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT					
01...	1515	60	7.6	11.0	9.8

AKALURA LAKE NEAR LARSEN BAY (LAT 57 11 14 LONG 154 12 40)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR									
17...	0830	5.0	70	6.4	2	17	1	4.8	1.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTH-CENTRAL ALASKA--Continued

AKALURA LAKE NEAR LARSEN BAY (LAT 57 11 14 LONG 154 12 40) --Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
MAR 17...	6.0	3.5	20	0	13	4.2	12	.1	3.0

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
MAR 17...	46	.03	.06	.03	.17	.20	.23	.02	3.6	.3	0	0

EAGLE CREEK AT AKALURA LAKE NEAR LARSEN BAY (LAT 57 10 47 LONG 154 14 55)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT 04...	1200	E10	63	7.3	5.5	2	11.5	18	2	4.7

E Estimated

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
OCT 04...	1.5	6.3	.5	19	0	1.5	2.8	8.0	.0	7.7

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT 04...	43	41	.09	.08	.04	.06	.10	.19	.02	.00

EAGLE CREEK AT AKALURA LAKE NEAR LARSEN BAY (LAT 57 10 47 LONG 154 14 55)--Continued

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT					
04...	1200	10	10	2.1	2.1

CROOKED CREEK AT AKALURA LAKE NEAR LARSEN BAY (LAT 57 11 25 LONG 154 10 43)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT										
04...	1300	E18	71	7.1	6.0	6	10.7	22	2	8.0

E Estimated

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
OCT										
04...	.6	5.2	.3	25	0	3.2	4.0	5.0	.0	6.6

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT										
04...	44	43	.13	.13	.02	.06	.08	.21	.01	.00

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT					
04...	1300	0	10	1.3	1.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SOUTHWEST ALASKA

ANIAKCHAK RIVER AT LAKE OUTLET NEAR PORT HEIDEN (LAT 56 54 32 LONG 158 05 13)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
JUL										
28...	1100	274	8.0	3	82	0	17	9.7	26	2.6

DATE	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUL												
28...	121	22	15	.4	31	167	184	.02	.04	490	230	60

ILLIAMNA LAKE NEAR PEDRO BAY (LAT 59 45 55 LONG 154 07 09)

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TRANSPARENCY (SECCHI DISK) (M)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
JUN								
03...	1630	16	40	--	8.8	17	1	5.3
03...	1640	443	43	2	--	17	1	5.3

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
JUN									
03...	.9	1.2	.5	19	0	5.4	1.1	.0	1.3
03...	.8	1.2	.5	19	0	6.9	1.1	.1	1.3

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN										
03...	20	25	.04	.04	.14	.18	.01	.00	0	0
03...	27	27	--	.12	--	--	--	.00	--	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA

SALCHA RIVER 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC-ATION (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
MAR										
15...	1300	--	--	--	150	7.0	.0	5	--	11.8
APR										
15...	0930	70	15.0	--	--	--	--	--	--	--
15...	1030	70	40.0	--	--	--	--	--	--	--
15...	1310	70	55.0	--	--	--	--	--	--	--
AUG										
06...	1330	--	--	1190	115	7.5	16.5	4	9	--
SEP										
29...	1230	--	--	817	122	7.3	5.8	2	--	13.9

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
MAR										
15...	75	15	20	6.1	1.8	1.0	73	0	10	19
APR										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	71	16	20	5.2	1.7	1.0	67	0	3.4	18
SEP										
29...	70	11	19	5.4	1.9	1.0	72	0	5.8	21

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
MAR										
15...	.0	.1	7.9	87	94	.42	.42	.02	.01	.01
APR										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	1.2	.1	6.4	91	87	--	.16	--	--	.00
SEP										
29...	.3	.1	6.5	88	92	--	.26	--	--	.00

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
MAR									
15...	1300	20	0	0	<10	10	<10	100	70
AUG									
06...	1330	--	--	--	--	--	--	--	100
SEP									
29...	1230	--	--	--	--	--	--	--	70

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

SALCHA RIVER 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00) --Continued

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
MAR 15...	<100	30	30	.0	0	<50	1	<10	0	2.0	.1
AUG 06...	--	--	0	--	--	--	--	--	--		
SEP 29...	--	--	10	--	--	--	--	--	--		

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON _ORGANISM__NAME	_COMMON__NAME	SAMPLING METHOD
APR 15	70	15	23	CHRYSOPHYTA		POLYETHYLENE STRIP
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				E ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				E ....DIATOMA		
				...FRAGILARIACEAE		
				O ....FRAGILARIA		
				O ....SYNEDRA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				O ....PINNULARIA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				...TABELLARIACEAE		
				O ....TABELLARIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON _ORGANISM__NAME	_COMMON__NAME	SAMPLING METHOD
APR 15	70	40	23	CHRYSOPHYTA		POLYETHYLENE STRIP
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				O ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				E ....DIATOMA		
				...FRAGILARIACEAE		
				E ....SYNEDRA		
				...NAVICULACEAE	NAVICULOID	
				O ....CALONEIS		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...SCYTONEMATACEAE		
				O ....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

Cross-section locations from left bank looking downstream.

SALCHA RIVER 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00) --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPYTHON ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 15	70	55	23	CHRYSOPHYTA		POLYETHYLENE STRIP
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				O ....ACHNANTHES		
				...DIATOMACEAE		
				O ....DIATOMA		
				...FRAGILARIACEAE		
				O ....FRAGILARIA		
				E ....SYNEDRA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...SCYTONEMATACEAE		
				E ....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR									
12...	0855	E110	--	1	1	.30	100	--	--
13...	1430	91	--	1	4	.98	81	86	100
16...	1200	E100	--	1	1	.27	100	--	--
AUG									
06...	1330	1190	16.5	9	10	32	--	--	--
SEP									
29...	1230	817	5.0	--	2	4.4	--	--	--

E Estimated

SALCHA RIVER SITE 2 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR											
15...	1430	--	--	150	6.9	.0	30	11.6	73	14	20

YUKON ALASKA--Continued

SALCHA RIVER SITE 2 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00) --Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
MAR 15...	5.7	1.9	1.1	73	0	13	18	.3	.1	7.9

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
MAR 15...	86	93	.45	.43	.03	.53	.56	1.0	.21	.00

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
MAR 15...	1430	10000	13	100	<10	20	30	15000	130

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
MAR 15...	<100	180	40	.0	2	<50	1	<10	60	5.2	1.2

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

				PERIPHYTON			
DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		_ORGANISM__NAME	_COMMON__NAME	SAMPLING METHOD
APR 16	50	25	24		CHRYSOPHYTA		POLYETHYLENE STRIP
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...ACHNANTHACEAE		
				O	....ACHNANTHES		
					...DIATOMACEAE		
				O	....DIATOMA		
					...FRAGILARIACEAE		
				O	....FRAGILARIA		
				O	....SYNEDRA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
					...NITZSCHIACEAE		
				O	....NITZSCHIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...SCYTONEMATACEAE		
				E	....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

SALCHA RIVER SITE 2 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00) --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPYTHON ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 16	50	40	24	CHRYSOPHYTA		POLYETHYLENE STRIP
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				O ....ACHNANTHES		
				...DIATOMACEAE		
				E ....DIATOMA		
				...FRAGILARIACEAE		
				O ....FRAGILARIA		
				E ....SYNEDRA		
				...GOMPHONEMATACEAE		
				O ....GOMPHONEMA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...SCYTONEMATACEAE		
				O ....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPYTHON ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 16	50	10	24	CHRYSOPHYTA		POLYETHYLENE STRIP
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				O ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				O ....DIATOMA		
				...FRAGILARIACEAE		
				O ....SYNEDRA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				...TABELLARIACEAE		
				O ....TABELLARIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...SCYTONEMATACEAE		
				E ....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

YUKON ALASKA--Continued

SALCHA RIVER SITE 2 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00)--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM
MAR							
12...	1115	E110	--	30	167	50	19
13...	1530	91	--	20	68	17	--
14...	1400	110	--	3	48	14	--
15...	1330	E110	--	80	290	86	14
16...	1100	E100	--	30	101	27	--
18...	1625	--	--	20	40	--	--
19...	0840	90	--	10	51	12	--
25...	1145	E80	--	100	261	56	20
25...	1600	E80	--	200	648	140	15
26...	0930	E80	--	15	70	15	--
26...	1500	E80	--	100	340	73	19
26...	2045	E80	--	90	159	34	23
27...	1045	E80	--	80	209	45	20
27...	1500	E80	--	100	355	77	16
AUG							
06...	1345	1190	16.5	--	3	9.6	--
SEP							
29...	1230	817	5.0	--	1	2.2	--

E Estimated

Note.--March data collected during pipeline crossing.

DATE	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR							
12...	24	38	57	78	99	100	--
13...	--	--	--	--	98	100	--
14...	--	--	--	--	95	99	100
15...	19	32	51	73	98	100	--
16...	--	--	--	--	99	100	--
18...	--	--	--	--	92	--	--
19...	--	--	--	--	94	99	100
25...	27	46	68	88	98	100	--
25...	29	47	71	94	99	100	--
26...	--	--	--	--	98	100	--
26...	30	47	71	91	99	100	--
26...	33	51	72	90	99	100	--
27...	28	42	64	86	98	100	--
27...	22	40	62	86	98	100	--
AUG							
06...	--	--	--	--	--	--	--
SEP							
29...	--	--	--	--	--	--	--

SALCHA RIVER SITE 3 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 10 LONG 146 39 00)

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	STREAM WIDTH (FT)	*CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 15	70	55	23		CHRYSOPHYTA		POLYETHYLENE STRIP
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
					...CYMBELLACEAE		
				O	....CYMBELLA		
					...DIATOMACEAE		
				E	....DIATOMA		
					...FRAGILARIACEAE		
				O	....SYNEDRA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
					...NITZSCHIACEAE		
				O	....NITZSCHIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...SCYTONEMATACEAE		
				E	....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

DATE	STREAM WIDTH (FT)	*CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 16	70	20	24		CHRYSOPHYTA		POLYETHYLENE STRIP
					.BACILLARIOPHYCEAE	DIATOMS	
					..CENTRALES	CENTRIC	
					...COSCINODISCACEAE		
				O	....MELOSIRA		
					..PENNALES	PENNATE	
					...DIATOMACEAE		
				O	....DIATOMA		
					...FRAGILARIACEAE		
				O	....FRAGILARIA		
				O	....SYNEDRA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
				O	....PINNULARIA		
					...NITZSCHIACEAE		
				O	....NITZSCHIA		
					...TABELLARIACEAE		
				O	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...SCYTONEMATACEAE		
				E	....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

DATE	STREAM WIDTH (FT)	*CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 16	70	50	24		CYANOPHYTA	BLUE-GREEN ALGAE	POLYETHYLENE STRIP
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...SCYTONEMATACEAE		
				E	....PLECTONEMA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED

*Cross-section locations from left bank looking downstream.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

SALCHA RIVER SITE 3 8 MILES ABOVE GAGE NEAR SALCHAKET (LAT64 29 10 LONG 146 30 00)--Continued

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
MAR							
12...	1030	E110	25	102	30	--	--
13...	1600	91	40	171	42	21	28
14...	1330	E110	5	24	7.1	--	--
15...	1330	E110	30	117	35	--	--
16...	1030	E100	30	98	26	--	--
25...	1115	E80	90	253	55	21	33
25...	1610	E80	250	564	122	18	35
26...	1000	E80	30	72	16	--	--
26...	1510	E80	150	310	67	23	34
26...	2130	E80	70	222	48	19	26
27...	1100	E80	50	134	29	25	34
27...	1515	E80	70	153	33	23	31
28...	0800	E80	10	15	3.2	--	--

E Estimated

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR						
12...	--	--	--	100	--	--
13...	48	70	86	99	100	--
14...	--	--	--	98	100	--
15...	--	--	--	100	--	--
16...	--	--	--	100	--	--
25...	51	73	90	98	99	100
25...	56	81	98	100	--	--
26...	--	--	--	99	100	--
26...	53	79	95	99	100	--
26...	41	65	89	99	100	--
27...	52	77	94	99	100	--
27...	48	71	91	99	100	--
28...	--	--	--	--	--	--

SALCHA RIVER 7 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 28 44 LONG 146 40 00)

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR					
27...	1530	E80	25	73	16

E Estimated

Note.--Collected during pipeline crossing.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

SALCHA RIVER 6.5 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 29 05 LONG 146 40 24)

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR					
27...	1550	E80	10	25	5.4

E Estimated
Note.--Collected during pipeline crossing.

SALCHA RIVER 5 MILES ABOVE GAGE NEAR SALCHAKET (LAT 64 28 57 LONG 146 41 25)

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR					
27...	1625	E80	15	14	3.0

E Estimated
Note.--Collected during pipeline crossing.

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JUL							
08...	1515	45	15.0	--	--	--	--
08...	1530	45	--	E250	46	9.0	12.2
SEP							
15...	1645	45	6.0	--	--	--	--
15...	1646	45	37.0	--	60	6.5	--
15...	1647	45	25.0	--	60	6.5	--
15...	1648	45	6.0	--	60	6.5	--
15...	1700	45	25.0	--	--	--	--
15...	1730	45	22.0	--	--	--	--
15...	1800	45	37.0	--	--	--	--

E Estimated
Note.--Cross-section locations from left bank looking downstream.

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)
FEB		
06...	1100	1.0
APR		
20...	1415	32
JUL		
08...	1530	11
SEP		
15...	1646	2.2
15...	1647	2.5
15...	1648	2.5

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M
APR						
20...	1330	74	--	--	--	--
SEP						
15...	1645	69	17.2	25.6	1.33	26.0
15...	1700	69	6.62	10.8	1.14	12.4
15...	1800	69	.923	2.15	.277	3.21

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 20	74		CHRYSOPHYTA		POLYETHYLENE STRIP
			.BACILLARIOPHYCEAE	DIATOMS	
			..PENNALES	PENNATE	
			...DIATOMACEAE		
		E	....DIATOMA		
			...FRAGILARIACEAE		
		O	....HANNAEA		
		O	....SYNEDRA		
			...NITZSCHIACEAE		
		O	....NITZSCHIA		

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
SEP 15	45	6	69		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
					.CHLOROPHYCEAE		
					..OEDOGONIALES		
					...OEDOGONIACEAE		
				O	....OEDOGONIUM		
					..ULOTRICHALES		
					...CHAETOPHORACEAE		
				O	....STIGEOCLONIUM		
					..ZYGNEMATALES		
					...DESMIDIACEAE	PLACODERM DESMIDS	
				O	....CLOSTERIUM		
				O	....COSMARIUM		
				O	....STAURASTRUM		
					...ZYGNEMATACEAE		
				O	....MOUGEOTIA		
				O	....SPIROGYRA		
					CHRYSOPHYTA		
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...FRAGILARIACEAE		
				O	....H.ARCUS		
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
					...CYMBELLACEAE		
				O	....CYMBELLA		
					...DIATOMACEAE		
				O	....DIATOMA		
					...FRAGILARIACEAE		
				O	....FRAGILARIA		
				E	....SYNEDRA		
					...GOMPHONEMATACEAE		
				O	....GOMPHONEMA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
				O	....PINNULARIA		
					...NITZSCHIACEAE		
				O	....NITZSCHIA		
					...TABELLARIACEAE		
				O	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...OSCILLATORIACEAE		
				E	....OSCILLATORIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		PERIPHYTON ORGANISM NAME	PERIPHYTON COMMON NAME	SAMPLING METHOD
SEP 15	45	25	69		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
					.CHLOROPHYCEAE		
					..OEDOGONIALES		
					...OEDOGONIACEAE		
				O	....OEDOGONIUM		
					..ZYGNEMATALES		
					...DESMIDIACEAE	PLACODERM DESMIDS	
				O	....STAURASTRUM		
					...ZYGNEMATACEAE		
				O	....MOUGEOTIA		
					CHRYSOPHYTA		
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...FRAGILARIACEAE		
				O	....H.ARCUS		
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
				O	....COCCONEIS		
					...CYMBELLACEAE		
				O	....AMPHORA		
				O	....CYMBELLA		
					...DIATOMACEAE		
				O	....DIATOMA		
					...EUNOTIACEAE		
				O	....EUNOTIA		
					...FRAGILARIACEAE		
				O	....SYNEDRA		
					...GOMPHONEMATACEAE		
				O	....GOMPHONEMA		
					...NAVICULACEAE	NAVICULOID	
				O	....FRUSTULIA		
				O	....NAVICULA		
				O	....PINNULARIA		
					...SURIRELLACEAE		
				O	....SURIRELLA		
					...TABELLARIACEAE		
				E	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...OSCILLATORIACEAE		
				O	....LYNGBYA		
				O	....OSCILLATORIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
Cross-section locations from left bank looking downstream.

YUKON ALASKA--Continued

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	SAMPLING METHOD
SEP 15	45	37	69	CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
				.CHLOROPHYCEAE		
				..OEDOGONIALES		
				...OEDOGONIACEAE		
				O ....OEDOGONIUM		
				..ULOTRICHALES		
				...CHAETOPHORACEAE		
				E ....STIGEOCLONIUM		
				...ULOTRICHACEAE		
				O ....ULOTHRIX		
				..ZYGNEMATALES		
				...DESMIDIACEAE	PLACODERM DESMIDS	
				O ....CLOSTERIUM		
				CHRYSOPHYTA		
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...FRAGILARIACEAE		
				O ....H.ARCUS		
				...ACHNANTHACEAE		
				E ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				O ....DIATOMA		
				...FRAGILARIACEAE		
				E ....SYNEDRA		
				...GOMPHONEMATACEAE		
				O ....GOMPHONEMA		
				...MERIDIONACEAE		
				O ....MERIDION		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				...TABELLARIACEAE		
				O ....TABELLARIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...OSCILLATORIACEAE		
				O ....LYNGBYA		
				O ....OSCILLATORIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

YUKON ALASKA--Continued

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

201 COUNT

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
JUL 8	45	15	30	ARTHROPODA			DRIFT NET
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		6	
				.CRUSTACEA			
				..PODOCOPA	SEED SHRIMPS		
				....UNKNOWN GENUS		2	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....CORYNONEURA		10	
				....CRICOTOPUS		35	
				....DIAMESA		4	
				....EUKIEFFERIELLA		12	
				....ORTHOCLADIUS		21	
				....RHEOTANYTARSUS		7	
				....STEMPELLINA		1	
				....THIENEMANNIELLA		24	
				....UNKNOWN GENUS		10	
				...SIMULIIDAE	BLACK FLIES		
				....SIMULIUM		66	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		1	
				...HEPTAGENIIDAE			
				....CINYGMULA		1	
				..PLECOPTERA	STONEFLIES		
				...NEMOURIDAE			
				....NEMOURA		1	
				TOTAL		201	

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)				
SEP 15	45	6	69	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		5	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		159	
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		49	
				....EUKIEFFERIELLA		19	
				....MICROPSECTRA		31	
				....ORTHOCLADIUS		41	
				....PENTANEURA		10	
				....POLYPEDILUM		18	
				....RHEOTANYTARSUS		47	
				....STEMPELLINA		7	
				...PSYCHODIDAE	MOTH FLIES		
				....PERICOMA		2	
				...TIPULIDAE	CRANE FLIES		
				....DICRANOTA		3	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....UNKNOWN GENUS		1	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....UNKNOWN GENUS		1	
				...TAENIOPTERYGIDAE			
				....BRACHYPTERA		2	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		3	
				TOTAL		398	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGHT OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	45	25	69	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		181	
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		43	
				....EUKIEFFERIELLA		38	
				....MICROPSECTRA		26	
				....ORTHOCLADIUS		23	
				....PENTANEURA		15	
				....POLYPEDILUM		7	
				....STEMPELLINA		14	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		2	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....UNKNOWN GENUS		2	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		4	
				...HYDROPSYCHIDAE			
				....HYDROPSYCHE		1	
				NEMATODA	NEMATODES		
				.UNKNOWN CLASS			
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		2	
				TOTAL		358	

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	45	22	30	ARTHROPODA			DRIFT NET
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		18	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		6	
				....MICROPSECTRA		2	
				....PENTANEURA		2	
				....PSEUDODIAMESA		2	
				....RHEOTANYTARSUS		2	
				....THIENEMANNIELLA		2	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		1	
				...HEPTAGENIIDAE			
				....UNKNOWN GENUS		1	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....UNKNOWN GENUS		1	
				TOTAL		37	

YUKON ALASKA--Continued

JIM RIVER ABOVE PROSPECT CAMP NEAR BETTLES (LAT 66 47 52 LONG 150 43 06)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	45	37	69	ANNELIDA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.HIRUDINEA	LEECHES		
				..RHYNCHOBDELLIDA			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				ARTHROPODA			
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				....UNKNOWN GENUS		200	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		200	
				...CHIRONOMIDAE	MIDGES		
				....CORYNONEURA		550	
				....CRICOTOPUS		999	
				....EUKIEFFERIELLA		999	
				....MICROPSECTRA		999	
				....ORTHOCLADIUS		402	
				....PENTANEURA		250	
				....POLYPEDILUM		999	
				....PSEUDODIAMESA		900	
				....RHEOTANYTARSUS		999	
				....STEMPELLINA		200	
				....THIENEMANNIELLA		950	
				...SIMULIIDAE	BLACK FLIES		
				....PROSIMULIUM		100	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....BAETIS		23	
				...EPHEMERELLIDAE			
				....EPHEMERELLA		32	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....UNKNOWN GENUS		19	
				...NEMOURIDAE			
				....NEMOURA		5	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		2	
				...LIMNEPHILIDAE			
				....LIMNEPHILUS		1	
				....PSYCHOGLYPHA		1	
				TOTAL		8831	

JIM RIVER BELOW PROSPECT CAMP NEAR BETTLES (LAT 66 47 42 LONG 150 43 48)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC-ATION (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
APR							
20...	0922	E30	E23.0	--	--	--	--
20...	0930	E30	E15.0	--	--	--	--
JUL							
08...	1350	E40	.5	E250	46	8.5	12.4
08...	1352	E40	10.0	--	--	--	--
08...	1354	E40	30.0	--	--	--	--
08...	1355	E40	3.0	--	--	--	--

E Estimated

Note.--Site downstream from 1975 oil spill.
Cross-section locations from left bank looking downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

JIM RIVER BELOW PROSPECT CAMP NEAR BETTLES (LAT 66 47 42 LONG 150 43 48)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)
FEB		
07...	0930	5.0
JUL		
08...	1350	8.7
08...	1352	15
08...	1354	11

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	BENTHIC INVERTEBRATES			SAMPLING METHOD
				ORGANISM NAME	COMMON NAME	COUNT	
APR 20	30	E23	74	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		4	
				....ORTHOCLADIUS		5	
				....PRODIAMESA		2	
				...SIMULIIDAE	BLACK FLIES		
				....SIMULIUM		8	
				...TIPULIDAE	CRANE FLIES		
				....DICRANOTA		1	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....UNKNOWN GENUS		4	
				...EPHEMERELLIDAE			
				....EPHEMERELLA		2	
				...HEPTAGENIIDAE			
				....CINYGMULA		1	
				..PLECOPTERA	STONEFLIES		
				...TAENIOPTERYGIDAE			
				....BRACHYPTERA		3	
				..TRICHOPTERA	CADDIS FLIES		
				...LIMNEPHILIDAE			
				....LIMNEPHILUS		1	
				TOTAL		32	
APR 20	30	E15	74	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....ORTHOCLADIUS		8	
				....PENTANEURA		1	
				....PSEUDODIAMESA		1	
				....RHEOCRICOTOPUS		3	
				...SIMULIIDAE	BLACK FLIES		
				....SIMULIUM		1	
				..PLECOPTERA	STONEFLIES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		7	
				TOTAL		22	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

JIM RIVER BELOW PROSPECT CAMP NEAR BETTLES (LAT 66 47 42 LONG 150 43 48)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
JUL 2	E40	3	40	ARTHROPODA			DRIFT NET
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		4	
				.INSECTA			
				..DIPTERA			
				...CHIRONOMIDAE	MIDGES		
				....CARDIOCLADIUS		9	
				....CORYNONEURA		6	
				....EUKIEFFERIELLA		29	
				....ORTHOCLADIUS		84	
				....PSEUDODIAMESA		2	
				....THIENEMANNIELLA		17	
				....UNKNOWN GENUS		10	
				...SIMULIIDAE	BLACK FLIES		
				....SIMULIUM		86	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....BAETIS		1	
				..PLECOPTERA	STONEFLIES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				TOTAL		249	

JIM RIVER BELOW PROSPECT CAMP SITE 2 NEAR BETTLES (LAT 66 47 42 LONG 150 43 48)

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)
FEB		
06...	1630	1.4
APR		
20...	1845	40

Note.--Site downstream from 1975 oil spill.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 20	74		CHRYSOPHYTA		POLYETHYLENE STRIP
			.BACILLARIOPHYCEAE	DIATOMS	
			..PENNALES	PENNATE	
			...FRAGILARIACEAE		
		O	....H.ARCUS		
			...ACHNANTHACEAE		
		O	....ACHNANTHES		
			...CYMBELLACEAE		
		O	....CYMBELLA		
			...DIATOMACEAE		
		E	....DIATOMA		
			...FRAGILARIACEAE		
		O	....FRAGILARIA		
		O	....SYNEDRA		
			...MERIDIONACEAE		
		O	....MERIDION		
			...NAVICULACEAE	NAVICULOID	
		O	....NAVICULA		
			...NITZSCHIACEAE		
		O	....NITZSCHIA		
			.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE	
			..CHRYSOCAPSALES		
			...HYDRURACEAE		
		E	....HYDRURUS		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

YUKON ALASKA -- Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC-ATION (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
SEP					
15...	1300	E40	E5.0	--	--
15...	1330	E40	E3.0	--	--
15...	1331	40	30.0	60	6.0
15...	1332	40	5.0	60	6.0
15...	1333	40	3.0	60	6.0
15...	1500	E40	E2.0	--	--
15...	1501	E40	E30.0	--	--

E Estimated

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)
SEP		
15...	1331	2.2
15...	1332	2.0
15...	1333	2.8

DATE	TIME	LENGTH OF EXPO-SURE (DAYS)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M
SEP						
15...	1300	69	235	238	.483	5.88
15...	1330	69	12.3	16.3	.915	11.7
15...	1500	125	9.69	15.5	2.91	33.0
15...	1501	125	--	--	--	--

Note.--Site downstream from 1975 oil spill.
Cross-section locations from left bank looking downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA --Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON ORGANISM NAME	PERIPHYTON COMMON NAME	SAMPLING METHOD
SEP 15	E40	E5	69	CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
				.CHLOROPHYCEAE		
				..OEDOGONIALES		
				...OEDOGONIACEAE		
				O ....OEDOGONIUM		
				..ULOTRICHALES		
				...CHAETOPHORACEAE		
				E ....STIGEOCLONIUM		
				...ULOTRICHACEAE		
				O ....ULOTHRIX		
				..ZYGNEMATALES		
				...DESMIDIACEAE	PLACODERM DESMIDS	
				O ....CLOSTERIUM		
				O ....COSMARIUM		
				O ....STAURASTRUM		
				...ZYGNEMATACEAE		
				O ....MOUGEOTIA		
				CHRYSOPHYTA		
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...FRAGILARIACEAE		
				O ....H.ARCUS		
				...ACHNANTHACEAE		
				E ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				O ....DIATOMA		
				...EUNOTIACEAE		
				O ....EUNOTIA		
				...FRAGILARIACEAE		
				O ....FRAGILARIA		
				E ....SYNEDRA		
				...GOMPHONEMATACEAE		
				O ....GOMPHONEMA		
				...NAVICULACEAE	NAVICULOID	
				O ....NAVICULA		
				O ....PINNULARIA		
				...NITZSCHIACEAE		
				O ....NITZSCHIA		
				...TABELLARIACEAE		
				E ....TABELLARIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...OSCILLATORIACEAE		
				O ....OSCILLATORIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA --Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

				PERIPHYTON			
DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
SEP 15	E40	E3	69		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
					.CHLOROPHYCEAE		
					..OEDOGONIALES		
					...OEDOGONIACEAE		
				O	....OEDOGONIUM		
					..TETRASPORALES		
					...TETRASPORACEAE		
				O	....TETRASPORA		
					..ULOTRICHALES		
					...CHAETOPHORACEAE		
				O	....STIGEOCLONIUM		
					..ZYGNEMATALES		
					...DESMIDIACEAE	PLACODERM DESMIDS	
				O	....CLOSTERIUM		
				O	....COSMARIUM		
				O	....STAURASTRUM		
					...ZYGNEMATACEAE		
				O	....MOUGEOTIA		
					CHRYSOPHYTA		
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...FRAGILARIACEAE		
				O	....H.ARCUS		
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
				O	....COCCONEIS		
					...CYMBELLACEAE		
				O	....AMPHORA		
				O	....CYMBELLA		
					...EUNOTIACEAE		
				O	....EUNOTIA		
					...FRAGILARIACEAE		
				O	....FRAGILARIA		
				E	....SYNEDRA		
					...GOMPHONEMATACEAE		
				O	....GOMPHONEMA		
					...MERIDIONACEAE		
				O	....MERIDION		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
				O	....PINNULARIA		
					...TABELLARIACEAE		
				E	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...OSCILLATORIACEAE		
				O	....LYNGBYA		
				O	....OSCILLATORIA		
					RHODOPHYTA	RED ALGAE	
					.RHODOPHYCEAE		
					..NEMALIONALES		
					...CHANTRANSICACEAE		
				O	....AUDOUINELLA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

YUKON ALASKA --Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON ORGANISM NAME	 COMMON NAME	SAMPLING METHOD
SEP 15	E40	E2	125	CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
				.CHLOROPHYCEAE		
				..ULOTRICHALES		
				...CHAETOPHORACEAE		
				O ....STIGEOCLONIUM		
				...ULOTRICHACEAE		
				O ....ULOTHRIX		
				..ZYGNEMATALES		
				...DESMIDIACEAE	PLACODERM DESMIDS	
				O ....CLOSTERIUM		
				O ....COSMARIUM		
				O ....STAURASTRUM		
				CHRYSOPHYTA		
				.BACILLARIOPHYCEAE	DIATOMS	
				..PENNALES	PENNATE	
				...ACHNANTHACEAE		
				E ....ACHNANTHES		
				...CYMBELLACEAE		
				O ....CYMBELLA		
				...DIATOMACEAE		
				O ....DIATOMA		
				...FRAGILARIACEAE		
				E ....SYNEDRA		
				...GOMPHONEMATACEAE		
				O ....GOMPHONEMA		
				...TABELLARIACEAE		
				O ....TABELLARIA		
				CYANOPHYTA	BLUE-GREEN ALGAE	
				.MYXOPHYCEAE		
				..OSCILLATORIALES	FILAMENTOUS	
				...OSCILLATORIACEAE		
				O ....LYNGBYA		
				...SCYTONEMATACEAE		
				O ....PLECTONEMA		
				RHODOPHYTA	RED ALGAE	
				.RHODOPHYCEAE		
				..NEMALIONALES		
				...CHANTRANSICACEAE		
				O ....AUDOUINELLA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

. YUKON ALASKA--Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)		PERIPHYTON		SAMPLING METHOD
					_ORGANISM__NAME	_COMMON__NAME	
SEP 15	E40	E30	125		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
					.CHLOROPHYCEAE		
					..ULOTRICHALES		
					...CHAETOPHORACEAE		
				O	....STIGEOCLONIUM		
					CHRYSOPHYTA		
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...FRAGILARIACEAE		
				E	....H.ARCUS		
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
				O	....COCCONEIS		
					...CYMBELLACEAE		
				O	....CYMBELLA		
					...DIATOMACEAE		
				O	....DIATOMA		
					...EUNOTIACEAE		
				O	....EUNOTIA		
					...FRAGILARIACEAE		
				O	....SYNEDRA		
					...GOMPHONEMATACEAE		
				O	....GOMPHONEMA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
					...NITZSCHIACEAE		
				O	....NITZSCHIA		
					...TABELLARIACEAE		
				O	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...OSCILLATORIACEAE		
				O	....LYNGBYA		
				O	....OSCILLATORIA		

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED

SEP 15	E40	E30	125	ANNELIDA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.OLIGOCHAETA	AQUATIC EARTHWORMS		
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		2	
				ARTHROPODA			
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				....UNKNOWN GENUS		5	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		77	
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		54	
				....PENTANEURA		5	
				....POTTHASTIA		2	
				....RHEOTANYTARSUS		7	
				....STEMPELLINA		7	
				...TIPULIDAE	CRANE FLIES		
				....DICRANOTA		1	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		2	
				..PLECOPTERA	STONEFLIES		
				...NEMOURIDAE			
				....NEMOURA		2	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		2	
				TOTAL		166	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA --Continued

JIM RIVER BELOW PROSPECT CAMP SITE 4 NEAR BETTLES (LAT 66 47 09 LONG 150 49 49)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB 06...	1545	--	--	1.0
SEP 15...	0930	60	4.5	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)		ORGANISM NAME	COMMON NAME	SAMPLING METHOD
APR 20	74		CHRYSOPHYTA		POLYETHYLENE STRIP
			.BACILLARIOPHYCEAE	DIATOMS	
			..PENNALES	PENNATE	
			...CYMBELLACEAE		
		O	....CYMBELLA		
			...DIATOMACEAE		
		E	....DIATOMA		
			...FRAGILARIACEAE		
		O	....HANNAEA		
		O	....SYNEDRA		
			...MERIDIONACEAE		
		O	....MERIDION		
			...NITZSCHIACEAE		
		O	....NITZSCHIA		
			.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE	
			..CHRYSOCAPSALES		
			...HYDRURACEAE		
		E	....HYDRURUS		

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)				
SEP 15	30	7	125		CHLOROPHYTA	GREEN ALGAE	POLYETHYLENE STRIP
					.CHLOROPHYCEAE		
					..ULOTRICHALES		
					...CHAETOPHORACEAE		
				E	....STIGEOCLONIUM		
					...ULOTRICHACEAE		
				O	....ULOTHRIX		
					..ZYGNEMATALES		
					...DESMIDIACEAE	PLACODERM DESMIDS	
				O	....CLOSTERIUM		
				O	....COSMARIUM		
					CHRYSOPHYTA		
					.BACILLARIOPHYCEAE	DIATOMS	
					..PENNALES	PENNATE	
					...FRAGILARIACEAE		
				O	....H.ARCUS		
					...ACHNANTHACEAE		
				E	....ACHNANTHES		
				O	....COCCONEIS		
					...CYMBELLACEAE		
				O	....CYMBELLA		
					...DIATOMACEAE		
				O	....DIATOMA		
					...FRAGILARIACEAE		
				O	....SYNEDRA		
					...GOMPHONEMATACEAE		
				O	....GOMPHONEMA		
					...NAVICULACEAE	NAVICULOID	
				O	....NAVICULA		
					...TABELLARIACEAE		
				O	....TABELLARIA		
					CYANOPHYTA	BLUE-GREEN ALGAE	
					.MYXOPHYCEAE		
					..OSCILLATORIALES	FILAMENTOUS	
					...OSCILLATORIACEAE		
				O	....LYNGBYA		

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA --Continued

JIM RIVER BELOW PROSPECT CAMP SITE 4 NEAR BETTLES (LAT 66 47 09 LONG 150 49 49) -Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	E30	E25	125	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		35	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		60	
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		970	
				....MICROPSECTRA		30	
				....ORTHOCLADIUS		420	
				....PENTANEURA		150	
				....POTTHASTIA		20	
				....PSEUDODIAMESA		50	
				....RHEOTANYTARSUS		950	
				....STEMPELLINA		10	
				...PSYCHODIDAE	MOTH FLIES		
				....PERICOMA		1	
				...SIMULIIDAE	BLACK FLIES		
				....PROSIMULIUM		2	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		21	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....ALLOPERLA		4	
				...NEMOURIDAE			
				....NEMOURA		2	
				....UNKNOWN GENUS		2	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		17	
				...LIMNEPHILIDAE			
				....PSYCHOGLYPHA		2	
				TOTAL		2746	

E Estimated

Note.--Site downstream from 1975 oil spill.
Cross-section locations from left bank looking downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

YUKON ALASKA--Continued

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	E40	E5	69	ANNELIDA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.OLIGOCHAETA	AQUATIC EARTHWORMS		
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		20	
				ARTHROPODA			
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				....UNKNOWN GENUS		50	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		40	
				...CHIRONOMIDAE	MIDGES		
				....CRICOTOPUS		190	
				....EUKIEFFERIELLA		170	
				....MICROPSECTRA		210	
				....ORTHOCLADIUS		260	
				....PENTANEURA		90	
				....POTTHASTIA		30	
				....PSEUDODIAMESA		110	
				...PSYCHODIDAE	MOTH FLIES		
				....PERICOMA		1	
				..PLECOPTERA	STONEFLIES		
				...NEMOURIDAE			
				....NEMOURA		3	
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		1	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		19	
				TOTAL		1194	
SEP 15	E40	E3	69	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		9	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		31	
				...CHIRONOMIDAE	MIDGES		
				....CORYNONEURA		40	
				....CRICOTOPUS		560	
				....EUKIEFFERIELLA		420	
				....MICROPSECTRA		180	
				....ORTHOCLADIUS		200	
				....PENTANEURA		90	
				....PSEUDODIAMESA		110	
				....RHEOTANYTARSUS		330	
				...SIMULIIDAE	BLACK FLIES		
				....PROSIMULIUM		3	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....UNKNOWN GENUS		4	
				...EPHEMERELLIDAE			
				....EPHEMERELLA		1	
				...HEPTAGENIIDAE			
				....UNKNOWN GENUS		1	
				..PLECOPTERA	STONEFLIES		
				...CHLOROPERLIDAE			
				....UNKNOWN GENUS		1	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		1	
				NEMATODA	NEMATODES		
				.UNKNOWN CLASS			
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		6	
				TOTAL		1987	

JIM RIVER BELOW PROSPECT CAMP SITE 3 NEAR BETTLES (LAT 66 47 35 LONG 150 44 00)-- Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME_	_COMMON__NAME_	COUNT	SAMPLING METHOD
SEP 15	30	ARTHROPODA			DRIFT NET
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....CRICOTOPUS		2	
		....EUKIEFFERIELLA		8	
		....MICROPSECTRA		2	
		....ORTHOCLADIUS		2	
		....PENTANEURA		6	
		....PSEUDODIAMESA		2	
		...SIMULIIDAE	BLACK FLIES		
		....PROSIMULIUM		4	
		..EPHEMEROPTERA	MAY FLIES		
		...BAETIDAE			
		....BAETIS		2	
		...HEPTAGENIIDAE			
		....UNKNOWN GENUS		2	
		..TRICHOPTERA	CADDIS FLIES		
		...HYDROPTILIDAE			
		....OXYETHIRA		2	
		...RHYACOPHILIDAE			
		....GLOSSOSOMA		2	
		TOTAL		34	

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)				
SEP 15	E40	E2	125	ARTHROPODA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		132	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		440	
				...CHIRONOMIDAE	MIDGES		
				....BRILLIA		4	
				....CRICOTOPUS		400	
				....DIAMESA		48	
				....EUKIEFFERIELLA		360	
				....PENTANEURA		280	
				....POTTHASTIA		20	
				....PSEUDODIAMESA		200	
				....RHEOTANYTARSUS		520	
				....STEMPELLINA		8	
				...SIMULIIDAE	BLACK FLIES		
				....PROSIMULIUM		12	
				..EPHEMEROPTERA	MAY FLIES		
				...BAETIDAE			
				....BAETIS		40	
				...EPHEMERELLIDAE			
				....EPHEMERELLA		12	
				..HEMIPTERA			
				...CORIXIDAE	WATER BOATMEN		
				....UNKNOWN GENUS		4	
				..TRICHOPTERA	CADDIS FLIES		
				...LIMNEPHILIDAE			
				....LIMNEPHILUS		4	
				NEMATODA	NEMATODES		
				.UNKNOWN CLASS			
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		20	
				TOTAL-		2504	

JIM RIVER BELOW PROSPECT CAMP SITE 4 NEAR BETTLES (LAT 66 47 09 LONG 150 49 49) -Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	LENGTH OF EXPOSURE (DAYS)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	30	7	69	ANNELIDA			ROCK BASKET WITH NET ARTIFICIAL SUBSTRATE
				.OLIGOCHAETA	AQUATIC EARTHWORMS		
				..UNKNOWN ORDER			
				...UNKNOWN FAMILY			
				....UNKNOWN GENUS		4	
				ARTHROPODA			
				.ARACHNOIDEA			
				..HYDRACARINA	WATER MITES		
				....UNKNOWN GENUS		37	
				.INSECTA			
				..DIPTERA			
				...CERATOPOGONIDAE	BITING MIDGES		
				....UNKNOWN GENUS		234	
				...CHIRONOMIDAE	MIDGES		
				....CORYNONEURA		200	
				....CRICOTOPUS		801	
				....EUKIEFFERIELLA		800	
				....MICROPSECTRA		200	
				....ORTHOCLADIUS		700	
				....PENTANEURA		600	
				....POTTHASTIA		6	
				....PSEUDODIAMESA		21	
				....RHEOTANYTARSUS		999	
				....STEMPELLINA		23	
				....THIENEMANNIELLA		400	
				...EMPIDIDAE	DANCE FLIES		
				....HEMERODROMIA		3	
				...PSYCHODIDAE	MOTH FLIES		
				....PERICOMA		1	
				..EPHEMEROPTERA	MAY FLIES		
				...EPHEMERELLIDAE			
				....EPHEMERELLA		1	
				..PLECOPTERA	STONEFLIES		
				...PERLODIDAE			
				....UNKNOWN GENUS		3	
				..TRICHOPTERA	CADDIS FLIES		
				...BRACHYCENTRIDAE			
				....BRACHYCENTRUS		2	
				...LIMNEPHILIDAE			
				....UNKNOWN GENUS		1	
				TOTAL		5036	

DATE	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 15	30	ARTHROPODA			DRIFT NET
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....EUKIEFFERIELLA		13	
		....MICROPSECTRA		7	
		....PENTANEURA		4	
		....PSEUDODIAMESA		3	
		....THIENEMANNIELLA		1	
		...SIMULIIDAE	BLACK FLIES		
		....PROSIMULIUM		5	
		..EPHEMEROPTERA	MAY FLIES		
		...HEPTAGENIIDAE			
		....UNKNOWN GENUS		1	
		..PLECOPTERA	STONEFLIES		
		...TAENIOPTERYGIDAE			
		....BRACHYPTERA		1	
		TOTAL		35	

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NORTHWEST ALASKA

VORTAC LAKE AT KOTZEBUE (LAT 66 53 18 LONG 162 32 11)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 28...	1000	356	12	160	99	45	12	5.6	3.2

DATE	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
APR 28...	77	91	12	.1	2.2	218	.08	.02

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR 28...	1000	1	100	0	0	10	6400	0	1500	0	0	90

NARVAKRAK LAKE NEAR NOATAK (LAT 68 00 00 LONG 161 43 12)

DATE	TIME	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
APR 06...	1230	6.7	.0	150	40	3.2	1.5	134

DATE	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
APR 06...	43	5.8	4.9	.1	2.5	.07	.00

DATE	TIME	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 06...	1230	300	<10	370	200	0	.9	21

NORTHWEST ALASKA--Continued

KUKPUK RIVER AT KUKPUK (LAT 68 24 24 LONG 165 56 40)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 08...	1400	295	7.5	.5	3.4	130	14	14	.6

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)
APR 08...	142	7.2	4.8	27	.0	2.9	.18	.00	0	.0

ARCTIC SLOPE ALASKA

KUKPOWRUK RIVER NEAR POINT LAY (LAT 69 29 50 LONG 162 43 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 15...	1430	850	7.4	.0	456	140	18	2.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
APR 15...	384	24	110	12	.1	4.2	.30	.00

DATE	TIME	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 15...	1430	400	10	240	300	10	.5	22

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

KUVIROK LAKE NEAR POINT LAY (LAT 69 30 38 LONG 162 20 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 14...	1430	730	7.1	.5	314	29	43	3.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)
APR 14...	348	44	3.7	94	.1	.4	.15	.00	10	.5

WINTER WATER SUPPLY LAKE NEAR POINT LAY (LAT 69 44 25 LONG 162 56 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 15...	1500	700	6.8	.0	270	53	57	3.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)
APR 15...	264	67	1.7	110	.1	.7	.17	.00	0	1.1

AVALIK RIVER NEAR WAINWRIGHT (LAT 70 04 40 LONG 159 02 40)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR 17...	1330	420	7.3	.0	9.0	252	60	17	1.5

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 17...	234	19	8.2	35	.1	9.0	.49	.01	10	5.0	80

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

WINTER WATER SUPPLY LAKE NEAR WAINWRIGHT (LAT 70 37 10 LONG 159 45 25)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
APR 16...	1630	375	6.0	.0	3.2	100	59	32	2.7

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)
APR 16...	50	80	5.2	94	.1	.9	.31	.00	0	.8

ITINIK LAKE NEAR NALIMIUT POINT (LAT 70 39 35 LONG 158 34 30)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
APR 17...	1715	1350	6.6	.0	406	210	130	4.3

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)
APR 17...	244	98	4.5	370	.1	1.4	.10	.00	0	5.3

MEADE RIVER AT ATKASUK (LAT 70 29 20 LONG 157 24 40)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
APR 18...	1200	450	7.3	.0	9.6	222	37	6.8	1.9

DATE	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 18...	226	18	1.7	9.8	.1	5.5	.53	.00	0	1.8	37

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

CHIPP RIVER NEAR BARROW (LAT 70 41 35 LONG 155 27 00)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR									
18...	1430	425	7.6	.5	12.6	212	13	6.5	1.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)
APR										
18...	242	9.7	4.8	12	.1	2.3	.31	.00	0	.8

TESHEKPUK LAKE NEAR THREE RANCH (LAT 70 36 06 LONG 153 30 00)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
APR									
19...	1330	400	7.6	.5	19.0	136	13	25	1.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)
APR										
19...	150	6.0	4.0	50	.0	.4	.11	.00	0	.0

LBRAITH LAKE AT OUTLET NEAR SAGWON (LAT 68 27 10 LONG 149 23 00)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOCATION (FT)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL									
09...	0830	E50	E40.0	E30	165	3.0	7.0	11.4	4.1
09...	0832	E50	E25.0	E30	--	--	--	--	6.6
09...	0834	E50	E10.0	E30	--	--	--	--	9.1

E Estimated

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	ORGANISM NAME	COMMON NAME	COUNT	SAMPLING METHOD
SEP 16	30	ARTHROPODA			DRIFT NET
		.INSECTA			
		..TRICHOPTERA	CADDIS FLIES		
		...BRACHYCENTRIDAE			
		....BRACHYCENTRUS		1	
		CNIDARIA	CNIDARIANS		
		.HYDROZOA			
		..HYDROIDA			
		...HYDRIDAE			
		....HYDRA		2	
		TOTAL		3	

Note.--Site downstream from 1975 oil spill
Cross-section locations from left bank looking downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

UNNAMED CREEK ABOVE GALBRAITH CAMP (LAT 68 27 11 LONG 149 28 56)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC- ATION (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL									
09...	1200	E10	E5.0	E5.0	215	7.5	2.0	12.0	1.1
09...	1202	E10	E9.0	E5.0	--	--	--	--	3.0
09...	1204	E10	E1.0	E5.0	--	--	--	--	2.2

E Estimated

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME_______________	_COMMON__NAME_______	COUNT	SAMPLING METHOD
JUL 9	28	ANNELIDA			DRIFT NET
		.OLIGOCHAETA	AQUATIC EARTHWORMS		
		..UNKNOWN ORDER			
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		2	
		ARTHROPODA			
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....DIAMESA		860	
		....ORTHOCLADIUS		999	
		...SIMULIIDAE	BLACK FLIES		
		....SIMULIUM		2	
		..EPHEMEROPTERA	MAY FLIES		
		...BAETIDAE			
		....UNKNOWN GENUS		23	
		...HEPTAGENIIDAE			
		....CINYGMULA		27	
		..PLECOPTERA	STONEFLIES		
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		18	
		TOTAL		1931	
SEP 17	30	ARTHROPODA			DRIFT NET
		.ARACHNOIDEA			
		..HYDRACARINA	WATER MITES		
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		1	
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....CORYNONEURA		2	
		....DIAMESA		26	
		....ORTHOCLADIUS		16	
		..EPHEMEROPTERA	MAY FLIES		
		...HEPTAGENIIDAE			
		....UNKNOWN GENUS		16	
		TOTAL		61	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

UNNAMED CREEK BELOW GALBRAITH CAMP (LAT 68 27 18 LONG 149 28 13)

DATE	TIME	STREAM WIDTH (FT)	CROSS SECTION LOC-ATION (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL									
09...	1030	E12	E11.0	E9.0	213	5.0	1.5	11.9	9.3
09...	1032	E12	E6.0	E9.0	--	--	--	--	2.8
09...	1034	E12	E1.0	E9.0	--	--	--	--	26
SEP									
17...	0720	--	--	--	210	--	2.0	--	--

E Estimated.
Note.--Site downstream from 1975 oil spill

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

DATE	LENGTH OF EXPOSURE (MINUTES)	_ORGANISM__NAME_______________	_COMMON__NAME_______	COUNT	SAMPLING METHOD
JUL 9	35	ARTHROPODA			DRIFT NET
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....DIAMESA		897	
		....ORTHOCLADIUS		999	
		..EPHEMEROPTERA	MAY FLIES		
		...BAETIDAE			
		....UNKNOWN GENUS		3	
		...HEPTAGENIIDAE			
		....CINYGMULA		10	
		..PLECOPTERA	STONEFLIES		
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		1	
		TOTAL		1910	
SEP 17	40	ARTHROPODA			DRIFT NET
		.ARACHNOIDEA			
		..HYDRACARINA	WATER MITES		
		...UNKNOWN FAMILY			
		....UNKNOWN GENUS		3	
		.INSECTA			
		..DIPTERA			
		...CHIRONOMIDAE	MIDGES		
		....CORYNONEURA		2	
		....DIAMESA		24	
		....ORTHOCLADIUS		5	
		..EPHEMEROPTERA	MAY FLIES		
		...HEPTAGENIIDAE			
		....UNKNOWN GENUS		10	
		TOTAL		44	

+ 15904900 ATIGUN RIVER TRIBUTARY NEAR PUMP STATION 4 (LAT 68 22 25 LONG 149 18 48)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
SEP					
19...	1200	6.9	130	7.2	2.0

+ Stream-gaging station at which discharge was not published.

SAGAVANIRKTOK RIVER EAST BRANCH OF EAST CHANNEL NEAR DEADHORSE (LAT 70 09 22 LONG 148 08 38)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV							
11...	0930	330	.0	0	1.2	.2	114

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
NOV							
11...	25	1.4	2.7	.21	.22	.43	.00

SAGAVANIRKTOK RIVER WEST BRANCH OF EAST CHANNEL NEAR DEADHORSE (LAT 70 09 38 LONG 148 10 43)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV							
11...	1100	460	.0	0	.9	.1	126

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
NOV							
11...	17	.6	3.4	.16	.25	.41	.00

SAGAVANIRKTOK RIVER WEST CHANNEL NEAR DEADHORSE (LAT 70 12 16 LONG 148 24 10)

DATE	TIME	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV							
11...	1700	.0	0	2.1	.2	257	30

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV							
11...	3.2	3.7	.24	.40	.64	.00	5.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

SAGAVANIRKTOK RIVER WEST CHANNEL AT BRIDGE NEAR DEADHORSE (LAT 70 15 22 LONG 148 18 02)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
09...	1515	8480	314	7190

UNNAMED LAKE 22 NEAR DEADHORSE (LAT 70 11 00 LONG 148 12 46)

DATE	TIME	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV							
10...	1430	.0	1	23	1.7	122	3.6

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV							
10...	64	.2	.08	1.4	1.5	.04	8.5

UNNAMED LAKE 30 NEAR DEADHORSE (LAT 70 12 30 LONG 148 10 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV							
08...	1500	532	.0	28	.9	102	5.1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV						
08...	85	.0	.07	1.7	1.8	.02

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

LAKE COLLEEN NEAR PRUDHOE BAY (LAT 70 13 10 LONG 148 27 00)

DATE	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
FEB									
05...	.0	35	1000	310	340	38	86	4.8	852

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
FEB										
05...	3.8	380	.3	1.3	1530	1280	.61	.08	80	40

UNNAMED LAKE 73 NEAR KADLEROSHILIK RIVER NEAR DEADHORSE (LAT 70 04 30 LONG 147 42 10)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV							
10...	1345	480	.0	0	11	.6	125

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV							
10...	2.4	69	.0	.04	1.3	1.3	.01

UNNAMED LAKE 26 NEAR KADLEROSHILIK RIVER NEAR DEADHORSE (LAT 70 06 10 LONG 147 30 50)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV							
10...	0915	372	.0	0	8.2	.2	80

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV							
10...	2.4	68	.0	.07	.80	.87	.01

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

SHAVIOVIK RIVER SITE 1 NEAR DEADHORSE (LAT 70 02 30 LONG 147 20 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 07...	1400	12	.0	0	1.9	.4	94

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 07...	18	1.9	2.7	.24	.75	.99	.00

KAVIK RIVER NEAR DEADHORSE (LAT 70 01 50 LONG 147 18 05)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 09...	1130	390	.0	0	1.8	.4	165

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 09...	28	1.6	2.5	.18	.43	.61	.01

CANNING RIVER NEAR KAKTOVIK (LAT 69 48 29 LONG 146 23 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 08...	1130	228	320	.0	0	1.5	.2	162

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 08...	31	1.3	2.6	.12	.61	.73	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

CANNING RIVER DELTA EAST CHANNEL NEAR KAKTOVIK (LAT 70 04 38 LONG 145 42 35)

DATE	TIME	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 30...	1145	.0	0	1.4	.3	123	34

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 30...	.9	2.3	.15	.09	.24	.01	8.9

UNNAMED LAKE NEAR CANNING RIVER DELTA NEAR KAKTOVIK (LAT 70 01 37 LONG 145 31 26)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 30...	1100	106	.0	1	4.7	.2	44

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 30...	1.8	11	.0	.06	.75	.81	.02

HULAHULA RIVER SITE 1 NEAR KAKTOVIK (LAT 69 45 39 LONG 144 09 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 26...	1250	4.6	1.0	1	.8	.2	66

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 26...	18	.7	1.5	.10	.08	.18	.03

UNNAMED LAKE 25 NEAR KAKTOVIK (LAT 70 03 13 LONG 143 43 51)

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV							
25...	96	.0	0	3.7	.2	26	1.8

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV						
25...	8.9	.0	.00	.59	.59	.09

UNNAMED LAKE AT JAGO RIVER NEAR KAKTOVIK (LAT 70 02 10 LONG 143 13 40)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
NOV							
17...	1300	80	.0	1	5.4	.8	32

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV							
17...	1.3	11	.0	.04	1.6	1.6	.02

UNNAMED LAKE NEAR JAGO RIVER NEAR KAKTOVIK (LAT 70 04 50 LONG 143 10 00)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV							
17...	1330	280	.0	0	16	.4	2.0

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV						
17...	57	.3	.09	1.2	1.3	.01

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

OKEROKOVIK RIVER SITE 2 NEAR KAKTOVIK (LAT 69 43 06 LONG 143 14 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 24...	1310	2.6	300	1.0	0	1.1	.3	163

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 24...	22	1.3	3.3	.31	.02	.33	.00

UNNAMED LAKE NEAR KAKTOVIK (LAT 69 59 55 LONG 143 00 53)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 22...	1300	115	.0	0	5.0	.6	53

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 22...	2.6	11	.0	.06	1.3	1.4	.01

AICHILIK RIVER SITE 2 NEAR KAKTOVIK (LAT 69 40 30 LONG 142 46 52)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 25...	1215	370	.0	1	1.6	.5	180

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 25...	45	.9	3.0	.19	.80	.99	.24

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

AICHILIK RIVER NEAR MOUTH NEAR KAKTOVIK (LAT 69 48 50 LONG 142 10 00)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 23...	1115	700	.0	0	4.2	.6	296

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 23...	84	5.1	5.5	.37	.45	.82	.00

UNNAMED LAKE NEAR AICHILIK RIVER DELTA NEAR KAKTOVIK (LAT 69 49 50 LONG 142 07 15)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 24...	1100	600	.0	0	35	1.2	147

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 24...	1.8	69	.1	.02	.45	.47	.01	3.7

EGAKSRAK RIVER NEAR MOUTH NEAR KAKTOVIK (LAT 69 48 47 LONG 142 05 23)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 23...	1300	560	.0	0	15	.7	139

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 23...	41	23	5.0	.40	.94	1.3	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARCTIC SLOPE ALASKA--Continued

KONGAKUT RIVER ABOVE DELTA NEAR KAKTOVIK (LAT 69 42 50 LONG 141 47 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 18...	1000	90	210	.5	0	1.1	.1	62

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 18...	17	1.0	3.0	.16	.24	.40	.00	34

UNNAMED LAKE NEAR DEMARCATION POINT (LAT 69 38 10 LONG 141 04 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 18...	1300	170	.0	0	3.5	.1	69

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 18...	1.8	6.9	.0	.02	.24	.26	.00	40

SOUTHEAST ALASKA

CITY AND BOROUGH OF JUNEAU

582422134342001. Local number, CD04006618ABDD1001 85177.
LOCATION.--Lat 58°24'22", long 134°34'20", Hydrologic Unit 19060000, Mendenhall Loop Road, near Juneau. Owner: U.S. Forest Service.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Bored unused water-table well, diameter 6 in (0.15 m), depth 100 ft (30.5 m), screened 90 to 100 ft (27.4 to 30.5 m).
DATUM.--Altitude of land-surface datum is 69 ft (21.0 m). Measuring point: Base of recorder shelter 5.00 ft (1.52 m) above land-surface datum.
REMARKS.--Water-quality records for 1967 are available in files of Juneau subdistrict office.
PERIOD OF RECORD.--June 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.35 ft (0.11 m) above land-surface datum, Oct. 2, 1970; lowest, 10.26 ft (3.13 m) below land-surface datum, Mar. 23, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.42	3.99	6.20	4.32	1.56	5.82	5.44	2.23	3.76	3.33	5.21	5.94
10	2.62	4.43	6.69	4.71	1.95	6.16	5.20	1.72	3.78	3.48	5.36	5.93
15	2.65	4.67	7.06	5.41	2.95	6.41	4.31	1.92	3.71	3.63	5.17	5.64
20	2.77	5.26	6.17	4.62	3.96	5.85	3.82	2.33	3.52	3.87	5.38	4.55
25	2.57	5.62	4.75	2.97	4.78	5.56	3.81	2.91	3.38	4.42	5.60	3.85
EOM	3.18	5.74	4.07	2.58	5.33	5.59	3.12	3.39	3.36	4.78	5.83	1.83

WTR YEAR 1976 MAX 1.07 OCT 3, 1975 MIN 7.09 DEC 15, 1975

SOUTH-CENTRAL ALASKA

CITY OF CORDOVA

603228145442601. Local number, CC01500327BDCB1004 30023.
LOCATION.--Lat 60°32'28", long 145°44'26", Hydrologic Unit 19050003, Lefeure Street near West end of Eyak Lake, Cordova. Owner: City of Cordova.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled public-supply (unused) artesian well, diameter 10 in (0.25 m), depth 82 ft (25.0 m), backfilled to 71 ft (21.6 m), screened 48.5 to 71 ft (14.8 to 21.6 m).
DATUM.--Altitude of land-surface datum is 32 ft (10 m). Measuring point: Top of shelter floor 4.00 ft (1.22 m), above land-surface datum.
REMARKS.--Major water-level fluctuations caused by variable pumping of nearby production wells.
PERIOD OF RECORD.--February 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.73 ft (2.36 m) below land-surface datum, Sept. 20, 1976; lowest, 46.88 ft (14.29 m) below land-surface datum, Dec. 28, 1975.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.63	11.27	23.40	---	---	29.41	29.84	22.36	10.95	12.62	---	10.95
10	10.53	11.41	27.10	---	---	28.69	---	10.02	13.62	23.54	14.09	9.58
15	8.50	11.73	26.44	---	---	36.56	---	9.43	12.44	30.50	12.26	8.67
20	9.97	15.04	30.83	---	27.32	30.52	---	9.77	11.27	22.80	11.21	7.73
25	9.42	11.96	34.92	---	23.36	37.21	39.28	12.62	15.51	39.08	11.37	9.16
EOM	10.53	12.63	---	---	25.80	30.75	25.77	28.60	12.98	---	11.20	8.86

WTR YEAR 1976 HWL 7.73 SEPT 20, 1976 LWL 46.88 DEC 28, 1975

KENAI PENINSULA BOROUGH

594515151492201. Local number, SC00501510CCAC1001 10003.
LOCATION.--Lat 59°45'15", long 151°49'22", Hydrologic Unit 19050002, mile 161, Old Sterling Highway near Anchor Point. Owner: Raymond Williams.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 6 in (0.15 m), depth 100 ft (30.5 m), perforated liner 91 to 100 ft (27.7 to 30.5 m).
DATUM.--Altitude of land-surface datum is 240 ft (73 m). Measuring point: Slot in top of casing 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Pump installed in well in December 1975. Access for measurements unavailable thereafter.
PERIOD OF RECORD.--May 1962 to September 1970, May 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.85 ft (10.93 m) below land-surface datum, May 31, 1963; lowest measured 47.89 ft (14.60 m) below land-surface datum, June 20, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE: NOV 18 WATER LEVEL: 38.08

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SOUTH-CENTRAL ALASKA

KENAI PENINSULA BOROUGH--Continued

595604151432301. Local number (revised), SC00301407DAAD1003 10002.
LOCATION.--Lat 59°55'51", long 151°44'15", Hydrologic Unit 19050002, at Happy Valley, mile 196, Sterling Highway. Owner: U.S. Geological Survey.
AQUIFER.--Gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Augered water-table observation well, diameter 2 in (0.05 m), depth 38 ft (11.6 m), screened from 35 to 38 ft (10.7 to 11.6 m).
DATUM.--Altitude of land-surface datum is 150 ft (46 m). Measuring point: Top of pipe, 3.20 ft (0.98 m) above land-surface datum.
REMARKS.--Water-quality records for 1967 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--June 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 (2.01 m) below land-surface datum, June 17, 1968; lowest measured, 12.18 ft (3.71 m) below land-surface datum, Mar. 3, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	8.18	MAR 29	11.30	MAY 20	8.61	AUG 13	10.20
JAN 7	9.63	MAY 5	7.75	JUL 14	9.63		

602926151042201. Local number, SB00501029CDAC1001 10001.
LOCATION.--Lat 60°29'26", long 151°04'22", Hydrologic Unit 19050002, Mt. Redoubt Way, Soldotna. Owner: Charles S. Parker.
AQUIFER.--Gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), depth 100 ft (30.5 m), cased to 100 ft (30.5 m), perforated 81 to 97 ft (24.7 to 29.6 m).
DATUM.--Altitude of land-surface datum is 94 ft (29 m) (revised). Measuring point: Shelter floor at top of casing 3.00 ft (0.91 m) above land-surface datum.
REMARKS.--Water-quality records for 1968 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.38 ft (0.73 m) below land-surface datum, June 28, 1963; lowest, 13.11 ft (4.00 m) below land-surface datum; occurred sometime between Feb. 15 and Apr. 15, 1976.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.49	---	---	---	---	---	---	7.10	8.09	6.66	6.56	6.65
10	5.33	---	---	---	---	---	---	7.96	6.91	9.52	6.28	6.78
15	5.20	6.86	---	---	---	---	---	7.98	7.23	7.83	6.35	5.87
20	5.25	---	---	---	---	---	---	7.52	6.57	6.97	6.82	5.82
25	6.24	---	---	---	---	---	11.22	7.15	7.08	7.20	6.92	5.78
EOM	---	---	---	---	---	---	11.35	7.94	7.00	5.85	6.82	6.25

WTR YEAR 1976 HWL 5.02 OCT 16, 1975 LWL 13.11 between FEB 15 and APR 15, 1976

603511151133003. Local number, SB00601128BBDA3001 10883.
LOCATION.--Lat 60°35'11", long 151°13'30", Hydrologic Unit 19050002, by FAA airport towers, City of Kenai. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 6 in (0.15 m), depth 12 ft (3.7 m), cased to 11 ft (3.4 m), perforated 7 to 11 ft (2.1 to 3.7 m).
DATUM.--Altitude of land-surface datum is 100 ft (30 m). Measuring point: Top of casing 3.00 ft (0.91 m) above land-surface datum.
REMARKS.--Minimum level that can be recorded is 8.64 ft (2.63 m) below land-surface datum. Water-level records for 1970-75 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--October 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.26 ft (0.38 m) below land-surface datum, May 9, 1972; lowest recorded, 8.64 ft (2.63 m) below land-surface datum, Apr. 5 to 18, 1976, when float rested on obtrusion in well.

WATER LEVEL AT NOON, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.93	3.69	6.49	7.83	8.23	8.43	8.64	2.83	3.64	4.60	---	5.49
10	2.64	4.51	7.04	7.91	8.25	8.48	8.64	2.92	3.47	4.89	---	4.56
15	2.53	5.21	7.35	8.01	8.29	8.51	8.64	3.07	3.83	4.91	4.79	4.38
20	2.80	5.72	7.51	8.10	---	8.54	8.32	3.18	4.03	4.88	4.45	3.08
25	2.72	5.93	7.62	8.17	---	8.57	4.07	3.37	4.32	4.66	4.89	3.42
EOM	2.97	6.11	7.75	8.20	---	8.61	2.78	3.76	4.40	---	5.30	3.26

WTR YEAR 1976 MAX 2.48 OCT 14, 1975 MIN 8.64 APR 5-18, 1976

603846151002701. Local number, SB00601003ABAC1001 10646.
LOCATION.--Lat 60°38'46", long 151°00'27", Hydrologic Unit 19050002, Marathon Oil Well Road in Beaver Creek basin, Kenai area. Owner: Marathon Oil.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 65 ft (20 m), cased to 65 ft (20 m).
DATUM.--Altitude of land-surface datum is 150 ft (46 m). Measuring point: Top of casing, 1.30 ft (0.40 m) above land-surface datum.
REMARKS.--Water-level records for 1968-75 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--August 1968 to November 1973, April to September 1976.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.77 ft (2.98 m) below land-surface datum, October 20, 1972; lowest 14.26 ft (4.35 m) below land-surface datum, April 4, 1969.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, APRIL TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	11.01	11.15	11.48	11.86
10	---	---	---	---	---	---	---	---	10.89	11.21	11.46	11.85
15	---	---	---	---	---	---	---	---	10.98	11.26	11.52	11.85
20	---	---	---	---	---	---	---	10.73	11.02	11.29	11.54	11.53
25	---	---	---	---	---	---	10.54	10.84	11.08	11.32	11.70	11.33
EOM	---	---	---	---	---,	---	---	10.98	11.08	11.41	11.80	11.17

WTR YEAR 1976 HWL 10.54 APR 25 and 26, 1976 LWL 11.89 SEP 6 and 7, 1976

604038151204303. Local number, SB00701223CCDB3008 10004.
LOCATION.--Lat 60°40'36", long 151°20'43", Hydrologic Unit 19050002, mile 1, Miller Loop Road, North Kenai. Owner: Collier Carbon and Chemical Company.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 112 ft (34.1 m), screened 106 to 110 ft (32.3 to 33.5 m).
DATUM.--Altitude of land-surface datum is 130 ft (40 m). Measuring point: Top of casing 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Large water-level fluctuations caused by nearby pumping. Well also known as Collier's 5B.
PERIOD OF RECORD.--December 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.52 ft (14.18 m) below land-surface datum, Feb. 7, 1968; lowest, 61.48 ft (18.74 m) below land-surface datum, Nov. 29, 1970.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.50	58.58	58.51	---	59.11	59.35	56.30	59.28	59.41	57.07	58.26	59.87
10	57.67	58.20	58.23	58.28	59.05	58.96	59.30	58.76	59.03	54.60	59.06	60.01
15	52.98	58.82	58.48	58.83	---	58.87	59.53	59.17	59.07	54.38	59.28	59.87
20	57.88	58.54	58.64	58.86	---	59.56	59.73	59.36	59.28	54.11	59.62	60.34
25	56.78	57.22	58.75	58.83	---	59.22	59.82	59.59	57.35	55.22	59.48	60.31
EOM	58.53	57.48	58.80	59.06	---	59.41	59.69	59.13	55.11	57.56	59.71	60.25

WTR YEAR 1976 HWL 52.98 OCT 15, 1975 LWL 60.84 SEP 17, 1976

604133151214802. Local number, SB00701215DCBC2004 10941.
LOCATION.--Lat 60°41'33", long 151°21'48", Hydrologic Unit 19050002, Bernice Lake campground, North Kenai. Owner: State of Alaska.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 6 in (0.15 m), depth 202 ft (62 m), cased to 191 ft (58 m), screened 191 to 196 ft (58 to 60 m).
DATUM.--Altitude of land-surface datum is 80 ft (24 m). Measuring point: Top of casing 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Water-level records for 1972-75 and water-quality records for 1972 are available in Anchorage subdistrict office.
PERIOD OF RECORD.--June 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.63 ft (2.94 m) below land-surface datum, Dec. 15, 16, and 25, 1972; lowest, 13.67 ft (4.17 m) below land-surface datum, Sept. 19, 1976.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.28	11.98	12.23	12.60	12.69	12.85	---	12.25	11.88	12.52	13.09	13.55
10	12.28	11.98	12.28	12.51	12.71	12.88	---	12.17	11.88	12.63	13.14	13.51
15	11.92	12.05	12.28	12.57	12.82	---	---	12.02	12.02	12.77	13.31	13.60
20	12.02	12.11	12.44	12.57	12.83	---	---	11.87	12.14	12.87	13.36	13.57
25	11.97	12.23	12.48	12.72	12.86	---	12.95	11.78	12.30	12.92	13.35	13.54
EOM	11.98	12.25	12.58	12.67	12.85	---	12.46	11.86	12.35	13.01	13.48	13.54

WTR YEAR 1976 HWL 11.77 MAY 27, 1976 LWL 13.67 SEP 19, 1976

SOUTH-CENTRAL ALASKA

MUNICIPALITY OF ANCHORAGE

611001149534601. Local number, SB01200401AABB1001 00590.
LOCATION.--Lat 61°10'01", long 149°53'46", Hydrologic Unit 19050002, Arctic Boulevard at Alaska Railroad crossing, Anchorage. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (0.20 m), depth 250.5 ft (76.4 m), cased to 247 ft (75.3 m).
DATUM.--Altitude of land-surface datum is 105 ft (32 m). Measuring point: Top of casing 3.94 ft (1.20 m) above land-surface datum.
REMARKS.--Water levels affected by local and Anchorage area pumping. Water-quality records for 1956 and 1965 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.35 ft (2.55 m) above land-surface datum, Oct. 31, 1957; lowest, 30.76 ft (9.35 m) below land-surface datum, July 27, 1976.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.94	16.60	16.50	17.44	22.16	20.43	20.74	21.45	21.77	26.55	27.32	20.76
10	19.30	16.85	---	17.64	23.05	21.14	21.27	21.92	22.29	28.06	25.28	19.75
15	19.17	16.39	---	18.06	22.22	21.44	21.78	21.90	22.89	29.41	23.27	18.92
20	18.52	16.80	---	18.73	20.90	21.48	21.40	21.46	23.77	30.39	---	18.60
25	16.74	16.98	17.44	19.89	20.09	21.47	21.17	21.68	23.46	30.68	21.42	18.01
EOM	16.34	17.05	17.42	21.17	20.00	20.89	21.08	21.27	24.65	29.86	21.18	17.22

WTR YEAR 1976 HWL 16.39 NOV 15, 1975 LWL 30.76 JUL 27, 1976

611049149545101. Local number, SB01300436BAAC1041 02368.
LOCATION.--Lat 61°10'49", long 149°54'51", Hydrologic Unit 19050002, Harding Drive and 45th Street, Anchorage. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 18.5 ft (5.6 m) (revised), screened 13.5 to 18.5 ft (4.1 to 5.6 m).
DATUM.--Altitude of land-surface datum is 88 ft (26.8 m). Measuring point: Top of casing cap 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--This well replaces well AK 1782, which was destroyed in September 1972. Measuring point is 0.31 ft (0.09 m) higher than that of former observation well.
PERIOD OF RECORD.--June 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.57 ft (3.83 m) below land-surface datum, Oct. 23, 1975; lowest measured, 13.52 ft (4.12 m) below land-surface datum, Sept. 23, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
OCT 23	12.57
APR 19	12.94

611149149553901. Local number, SB01300423DDDB1002 00280.
LOCATION.--Lat 61°11'49", long 149°55'39", Hydrologic Unit 19050002, West Northern Lights Boulevard and Lahonda Drive, Anchorage. Owner: Municipality of Anchorage.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 283 ft (86.3 m), screened 278 to 283 ft (84.7 to 86.3 m).
DATUM.--Altitude of land-surface datum is 47 ft (14 m). Measuring point: Top of casing 1.30 ft (0.40 m) above land-surface datum.
REMARKS.--Water level affected by pumping in the Anchorage area. Tide effect in well is about 0.2 ft (.06 m). Water-quality records for 1953, 1955, and 1975 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--September 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, flowing over top of casing, 1962 to 1963; lowest, 13.02 ft (3.97 m) below land-surface datum, April 2, 1964.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.09	5.94	6.22	5.50	5.61	5.98	6.22	6.31	6.69	8.02	8.77	5.31
10	6.20	6.26	6.58	5.02	5.74	6.25	6.65	6.05	6.67	8.54	7.56	5.16
15	5.94	6.07	6.33	5.25	5.66	6.12	6.12	6.84	6.84	8.85	7.10	4.74
20	6.11	6.18	6.21	5.55	5.74	6.10	6.54	6.67	6.75	9.14	6.59	4.54
25	6.20	6.36	5.78	5.48	5.79	6.06	7.04	6.85	6.86	9.44	6.04	4.14
EOM	5.78	6.60	6.07	5.67	6.19	6.28	6.52	6.62	7.39	9.14	5.71	4.06

WTR YEAR 1976 HWL 3.85 SEP 28, 1976 LWL 10.10 JUL 28, 1976

MUNICIPALITY OF ANCHORAGE--Continued

611311149510401. Local number, SB01300317BDAD1003 00114.
LOCATION.--Lat 61°13'11", long 149°51'04", Hydrologic Unit 19050002, 3rd and Concrete Avenues, Anchorage. Owner: Municipality of Anchorage.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 8 in (0.20 m), depth 230 ft (70.1 m), slotted 162 to 182 ft (49.4 to 55.5 m) and 190 to 201 ft (57.9 to 61.3 m).
DATUM.--Altitude of land-surface datum is 127 ft (39 m) (revised). Measuring point: Top of coupling on casing cap 1.80 ft (0.55 m) above land-surface datum.
REMARKS.--Water-level fluctuation caused mainly by pumping of local municipal wells. Water-quality records for 1965 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--October 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.88 ft (8.80 m) below land-surface datum, Nov. 29, 1957; lowest measured, 128.17 (39.07 m) below land-surface datum, Apr. 19, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
OCT 23	110.83
APR 19	128.17

611336149454401. Local number, SB01300311CDAD1003 00067
LOCATION.--Lat 61°13'36", long 149°45'44", Hydrologic Unit 19050002, near Glenn Highway and Boniface Parkway, Anchorage. Owner: U.S. Air Force.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 189 ft (57.6 m), casing information not available.
DATUM.--Altitude of land-surface datum is 210 ft (64 m). Measuring point: Top of casing 3.90 ft (1.19 m) above land-surface datum.
REMARKS.--Water levels affected by pumping in the Anchorage area.
PERIOD OF RECORD.--September 1959 to October 1962, September 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.88 ft (4.54 m) below land-surface datum, Oct. 28, 1960; lowest, 34.77 ft (10.60 m) below land-surface datum, May 14 and 18, 1971.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.55	26.66	24.31	25.07	26.32	30.80	33.15	31.98	29.57	27.60	---	26.10
10	22.74	26.59	---	25.14	28.33	30.69	32.61	30.66	28.60	28.07	---	---
15	25.06	26.72	---	25.76	29.20	31.48	31.11	30.20	28.80	27.44	---	---
20	26.09	25.00	---	25.81	29.84	31.27	33.56	29.78	28.71	27.13	---	---
25	25.68	24.58	24.56	26.10	29.54	31.51	32.65	29.46	28.50	27.18	26.41	26.50
EOM	27.00	24.09	24.96	26.11	30.26	31.98	31.74	29.60	28.37	---	26.34	26.60

WTR YEAR 1976 HWL 22.50 OCT 4, 1975 LWL 33.74 APR 21, 1976

611444149415401. Local number, SB01300206DBBA1004 00017.
LOCATION.--Lat 61°14'41", long 149°41'54", Hydrologic Unit 19050002, Arctic Valley Road, Fort Richardson. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 6 in (0.15 m), depth 670 ft (204 m), cased to 134 ft (40.8 m), backfilled with gravel to 134 ft (40.8 m) and plugged, perforated 90 to 120 ft (27.4 to 36.6 m) and 130 to 134 ft (39.6 to 40.8 m).
DATUM.--Altitude of land-surface datum is 294 ft (90 m). Measuring point: Top of shelter floor 1.95 ft (0.59 m) above land-surface datum.
REMARKS.--Water levels affected by pumping in the Anchorage area. Water-quality records for 1953 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--August 1954 to June 1962, September 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.15 ft (12.85 m) below land-surface datum, Oct. 28, 1960; lowest, 66.49 ft (20.27 m) below land-surface datum, May 15, 1971.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.03	50.99	50.32	51.56	53.76	58.57	61.95	63.41	61.56	59.39	58.62	---
10	47.11	50.95	---	51.77	54.85	59.18	62.27	62.88	60.92	59.27	58.55	---
15	47.97	51.56	---	52.50	55.64	59.48	62.21	62.73	60.74	58.79	58.61	---
20	49.25	50.88	---	---	56.66	60.35	62.99	62.16	60.52	58.55	58.57	---
25	49.76	50.56	50.76	---	57.48	60.73	63.28	61.74	60.11	58.58	58.00	57.94
EOM	50.68	49.93	51.54	53.73	57.91	61.33	63.14	61.73	59.58	58.62	---	57.93

WTR YEAR 1976 HWL 46.79 OCT 3, 1975 LWL 63.72 APR 27 and 28, 1976

SOUTH-CENTRAL ALASKA

MATANUSKA-SUSITNA BOROUGH

613417149065401. Local number, SA01700209CCCB1009 20004.
LOCATION.--Lat 61°34'20", long 149°06'50", Hydrologic Unit 19050002, Springer Road, 2 mi (3 km) south of Palmer. Owner: Glenn Woods.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in (0.10 m), depth 83 ft (25.3 m), cased to 82 ft (25.0 m), slotted at bottom.
DATUM.--Altitude of land-surface datum is 170 ft (52 m). Measuring point: Top of casing 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Water-quality records for 1967 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.58 ft (21.21 m) below land-surface datum, July 29, 1964; lowest measured, 77.36 ft (23.58 m) below land-surface datum, Mar. 26, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	72.49	JAN 27	72.94	MAY 21	73.56	JUL 23	72.06	SEP 21	72.43
DEC 5	72.62	FEB 23	73.26	JUN 24	72.71	AUG 25	72.12		

613630149084302. Local number, SA01800232BCCB2002 20002.
LOCATION.--Lat 61°36'30", long 149°08'43", Hydrologic Unit 19050002, Scott Road, near Palmer. Owner: City of Palmer.
AQUIFER.--Sand of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well. Diameter 8 in (0.20 m), depth 159 ft (48.5 m), screened 139 to 159 ft (42.4 to 48.5 m).
DATUM.--Altitude of land-surface datum is 390 ft (119 m). Measuring point: Top of 1.5 in (.04 m) diameter vertical pipe in concrete well foundation 17.25 ft (5.26 m) below land-surface datum.
REMARKS.--Water-level fluctuations at times caused by nearby pumping.
PERIOD OF RECORD.--June 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.77 ft (13.65 m) below land-surface datum, Apr. 27, 1966; lowest measured, 58.5 ft (17.8 m) below land-surface datum, Sept. 12, 1958.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	50.45	JAN 27	47.59	APR 26	47.82	JUN 24	48.91	AUG 25	48.14
DEC 5	47.53	FEB 23	47.71	MAY 21	47.59	JUL 23	48.78	SEP 21	47.78

621923150063501. Local number, SB02600524DCDC1003 20006.
LOCATION.--Lat 62°19'23", long 150°06'35", Hydrologic Unit 19050002, north end of airstrip, Talkeetna. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Augered test water-table well, diameter 2 in (0.05 m), depth 47 ft (14.3 m), sand point screen 44 to 47 ft (13.4 to 14.3 m).
DATUM.--Altitude of land-surface datum is 340 ft (104 m). Measuring point: Top of pipe 2.60 ft (0.79 m) above land-surface datum.
REMARKS.--Water levels closely reflect local streamflow conditions. Water-quality records for 1967 are available in files of Anchorage subdistrict office.
PERIOD OF RECORD.--September 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.53 ft (1.08 m) below land-surface datum, Aug. 12, 1971; lowest measured, 9.83 ft (3.00 m) below land-surface datum, Apr. 5, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 17	7.10	JUN 8	6.98	AUG 20	7.75
MAY 8	9.39	JUL 7	7.39		

YUKON ALASKA

FORT GREELY

635947145435101. Local number, FD01101011BDAA1003 50007.
LOCATION.--Lat 63°59'47", long 145°43'51", Hydrologic Unit 19030004, at Fort Greely about 1,500 ft (460 m) west of West Third Street and East Post Road intersection. Owner: U.S. Army.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), original depth 230 ft (70 m), top of sediment in well about 217 ft (66 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,300 ft (400 m). Measuring point: Top of casing, 3.50 ft (1.067 m) above land-surface datum.
REMARKS.--Data collection temporarily discontinued pending well rehabilitation.
PERIOD OF RECORD.--November 1965 to September 1975.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 194.2 ft (59.2 m), Oct. 7, 1966; dry at 216.7 ft (66.0 m) at various times.

NOTE:

No water-level data obtained in water year 1976.

FAIRBANKS NORTH STAR BOROUGH

643916147043501. Local number, FD00300314ADCC1001 50004.
LOCATION.--Lat 64°39'11", long 147°04'35", Hydrologic Unit 19030004, building 4355, Eielson Air Force Base. Owner: U.S. Air Force.
AQUIFER.--Sand and gravel of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 101 ft (30.8 m), casing information not available.
DATUM.--Altitude of land-surface datum is 540 ft (165 m). Measuring point: Top of metal plate 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water-quality records for 1951-52 and 1961-62 are available in files of the Fairbanks subdistrict office.
PERIOD OF RECORD.--August 1965 to July 1975, April to September 1976.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.87 ft (2.09 m) below land-surface datum, July 27, 1967; lowest, 9.90 ft (3.02 m) below land-surface datum, Nov. 11, 1969.

HIGHEST WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, APRIL TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	7.98	8.92	8.74	7.99	8.58
10	---	---	---	---	---	---	8.56	e8.2	8.85	8.67	7.92	8.78
15	---	---	---	---	---	---	8.58	8.65	8.79	8.59	7.80	8.94
20	---	---	---	---	---	---	8.59	8.96	8.78	8.28	7.93	9.08
25	---	---	---	---	---	---	8.44	9.12	8.86	7.97	8.19	9.20
EOM	---	---	---	---	---	---	8.13	9.06	8.78	7.97	8.42	9.28

FOR PERIOD IN 1976 HWL 7.77 AUG 14, 1976 LWL 9.28 SEP 30, 1976
e Estimated

644944147402501. Local number, FC00100113BCCC1022 50006.
LOCATION.--Lat 64°49'44", long 147°40'25", Hydrologic Unit 19030004, at former building site 4005, Fort Wainwright. Owner: U.S. Army.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 118 ft (36.0 m), cased to 100 ft (30.5 m).
DATUM.--Altitude of land-surface datum is 440 ft (134 m). Measuring point: Top of casing 1.50 ft above land-surface datum.
REMARKS.--Water level reflects seasonal changes in the Chena River 0.4 mi (0.6 km) to the north and the Tanana River 2.5 mi (4.0 km) to the south. Water-level records prior to 1976 water year and water-quality records for 1951, 52, 55, 1958-60, and 1966, are available in files of the Fairbanks subdistrict office.
PERIOD OF RECORD.--August 1966 to June 1970, March to September 1976.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.67 ft (1.12 m) above land-surface datum, Aug. 15, 1967; lowest water level measured, 16.60 ft (5.06 m) below land-surface datum, Mar. 20, 1965.

HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, MARCH TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	e15.8	---	13.99	---	14.52	14.62
10	---	---	---	---	---	---	e15.9	---	14.11	14.66	14.58	14.65
15	---	---	---	---	---	---	e15.9	14.10	14.25	14.71	14.61	14.68
20	---	---	---	---	---	---	15.90	e14.1	14.39	14.74	14.60	14.85
25	---	---	---	---	---	15.75	15.83	e14.0	14.51	14.73	14.50	14.90
EOM	---	---	---	---	---	15.80	e15.4	e14.0	---	14.48	14.56	14.93

FOR PERIOD IN 1976 HWL 13.99 JUN 5, 1976 LWL 15.90 APR 20, 1976
e Estimated

YUKON ALASKA

FAIRBANKS NORTH STAR BOROUGH--Continued

645442147461601. Local number, FB0010017DDAD1001 50176.
LOCATION.--Lat 64°54'38", long 147°46'45"; Hydrologic Unit 19030004, 1.4 mi (2.3 km) northwest of intersection of Farmers Loop Road and Grenac Road, near Fairbanks. Owner: U.S. Geological Survey.
AQUIFER.--Birch Creek schist of Precambrian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 565 ft (172.2 m), cased to 370 ft (112.8 m).
DATUM.--Land-surface datum is 1,282.92 ft (391.015 m) above mean sea level (datum established by Corps of Engineers in 1958). Measuring point: Top of casing 1.98 ft (0.60 m) above land-surface datum.
REMARKS.--U.S. Army named well B-61. Water-level records for May to September 1975 are available in files of Fairbanks subdistrict office.
PERIOD OF RECORD.--May 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 809.6 ft (246.8 m) above mean sea level, May 28, 1975; lowest measured, 803.1 ft (244.8 m) above mean sea level, Sept. 2, 1976.

WATER LEVEL, IN FEET BOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	807.3	NOV 18	806.7	JAN 15	806.3	APR 20	805.1	JUL 7	804.4	SEP 2	803.1
OCT 27	807.2	DEC 19	807.1	FEB 10	806.0	JUN 4	804.4	AUG 3	803.7		

MCKINLEY PARK

634355148550501. Local number, FC01400704BDAB1002 50002.
LOCATION.--Lat 63°43'55", long 148°55'05", Hydrologic Unit 19030004, near McKinley Park Hotel. Owner: U.S. National Park Service.
AQUIFER.--Fractured schist of Precambrian Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 307 ft (93.6 m) (revised), cased to 304 ft (92.7 m), perforated 150 to 199.5 ft (45.7 to 60.8 m).
DATUM.--Altitude of land-surface datum is 1,750 ft (533 m). Measuring point: Top of casing 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--
PERIOD OF RECORD.--1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.26 ft (27.21 m) below land-surface datum, Oct. 4, 1969; lowest measured, 100.60 ft (30.66 m) below land-surface datum, June 22, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24	98.60	SEP 27	95.10
AUG 27	95.59		

634359148545401. Local number, FC01400704ABCC1001 50001.
LOCATION.--Lat 63°43'59", long 148°54'54", Hydrologic Unit 19030004, near McKinley Park Hotel. Owner: U.S. National Park Service.
AQUIFER.--Fractured schist of Precambrian Age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 253 ft (77.1 m)(revised), cased to 204 ft (62.2 m).
DATUM.--Altitude of land-surface datum is 1,750 ft (533 m). Measuring point: Top of casing 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--Water level at times affected by nearby pumping.
PERIOD OF RECORD.--1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.81 ft (28.29 m) below land-surface datum, July 2, 1968; lowest measured, 109.42 ft (33.35 m) below land-surface datum, Apr. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24	104.73	SEP 27	103.77
AUG 27	103.75		

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

KENAI--COLLIERS CHEMICAL TEST WELL NO. 1

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)
60 40 41	151 23 07	01	SB00701221DDBC1008 11051	76-05-21	0930	382	382	342	11700	1800

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	SAMPLE SOURCE	SAM-PLING CONDI-TION	SAMPLE TREAT-MENT	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
60 40 41	151 23 07	01	76-05-21	1/ 1	2/ 1	3/ 1	600	8.5	4.0	7	43	6.7

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
60 40 41	151 23 07	01	76-05-21	6.4	120	8.8	19	53	.8	25	.22	.15

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
60 40 41	151 23 07	01	76-05-21	.37	.46	30	30	100	360	100	70

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
60 40 41	151 23 07	01	76-05-21	60	60	0	9

1/ Well head 2/ Testing 3/ Raw

PORTAGE--ALASKA RAILROAD WELL

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)
60 49 10	148 58 17	01	SA00800305BABB1001 04042	75-11-21	1200	108	37	35	2880	E5.0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	SAMPLE SOURCE	SAM-PLING CONDI-TION	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
60 49 10	148 58 17	01	75-11-21	1/ 1	2/ 3	65	5.0	80	21	0	4.2	2.5

E Estimated 1/ Well head 2/ Pumping

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

PORTAGE--ALASKA RAILROAD WELL--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
60 49 10	148 58 17	01	75-11-21	1.8	1.3	29	0	3.5	1.9	.1	10	53

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
60 49 10	148 58 17	01	75-11-21	41	.06	.04	230	380

ANCHORAGE OBSERVATION WELLS

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)
61 10 36	149 48 22	01	SB01300333ADAD1027 02729	76-02-26	1400	194	78	63	1620	300
61 11 49	149 55 39	01	SB01300423DDDB1002 00280	75-10-17	1045	283	283	279	50	E10

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	SAMPLE SOURCE	SAM-PLING CONDI-TION	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
61 10 36	149 48 22	01	76-02-26	1/ 1	2/ 8	165	7.9	1.5	1	81	1	24
61 11 49	149 55 39	01	75-10-17	1	8	225	7.7	3.5	2	120	6	30

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
61 10 36	149 48 22	01	76-02-26	5.1	2.1	.8	97	0	2.0	9.4	1.0	.1
61 11 49	149 55 39	01	75-10-17	10	2.3	1.0	134	0	4.3	3.9	1.7	.1

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
61 10 36	149 48 22	01	76-02-26	11	104	102	.15	.00	10	0
61 11 49	149 55 39	01	75-10-17	19	136	135	.00	.07	150	80

E Estimated

1/ Well head

2/ Pumping

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

*ANCHORAGE (MERRILL FIELD) SANITARY LANDFILL WELLS

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (FT)	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)
61 12 19	149 50 35	01	SB01300320ADBC1030 02369	75-10-09	1300	--	102	--	--	E360
61 12 23	149 50 39	01	SB01300320ABDD1033 02398	76-04-14	1340	--	102	--	--	E400
				76-08-03	1325	9.10	14	--	--	--
				76-08-05	1130	28.00	40	--	--	--
				76-09-14	1030	--	91	--	--	30
				76-09-14	1200	--	91	--	--	120
				76-09-14	1230	36.80	91	91	89	150
61 12 43	149 50 07	01	SB01300316CCBC1006 02371	75-10-09	1000	--	95	--	--	35
				76-04-14	1040	--	95	--	--	30
61 12 43	149 50 07	02	SB01300316CCBC2006 02372	76-04-14	0900	63.00	70	--	--	40
61 12 43	149 50 07	03	SB01300316CCBC3006 02373	75-10-09	1430	--	17	17	13	30
				76-04-14	1220	--	17	17	13	40

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	INSTAN-TANEOUS FLOW RATE (GPM)	SAMPLE SOURCE	SAM-PLING CONDI-TION	SAMPLE TREAT-MENT	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
61 12 19	149 50 35	01	75-10-09	E10	1/ 30	4/ 18	7/ 1	340	7.7	--	150	19
61 12 23	149 50 39	01	76-04-14	E10	30	18	1	355	7.6	--	160	22
			76-08-03	--	2/ 33	5/ 15	1	E530	--	--	160	--
			76-08-05	--	33	15	1	530	--	6.5	220	--
			76-09-14	3.5	3/ 1	6/ 8	1	270	--	4.5	--	--
			76-09-14	7.5	1	8	1	278	--	4.0	--	--
			76-09-14	7.0	1	8	1	285	--	4.0	110	0
61 12 43	149 50 07	01	75-10-09	7.0	1	8	--	240	7.9	3.0	79	0
			76-04-14	5.0	1	8	--	280	7.6	3.0	90	0
61 12 43	149 50 07	02	76-04-14	2.0	1	8	--	250	7.5	3.5	81	0
61 12 43	149 50 07	03	75-10-09	10	--	--	--	>4000	6.6	7.5	1600	0
			76-04-14	5.0	--	--	--	4000	6.7	5.0	1400	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
61 12 19	149 50 35	01	75-10-09	33	17	12	1.9	163	--	5.2	28	8.0
61 12 23	149 50 39	01	76-04-14	35	18	12	--	170	--	6.8	37	9.2
			76-08-03	45	12	25	--	--	--	--	33	53
			76-08-05	45	27	30	--	--	--	--	20	32
			76-09-14	--	--	--	--	--	--	--	--	--
			76-09-14	--	--	--	--	--	--	--	--	--
			76-09-14	25	12	18	--	156	--	--	15	8.4
61 12 43	149 50 07	01	75-10-09	20	7.0	23	2.1	146	--	2.9	6.2	1.5
			76-04-14	22	8.6	27	--	174	--	7.0	8.2	7.1
61 12 43	149 50 07	02	76-04-14	20	7.6	25	--	155	--	7.8	7.9	3.6
61 12 43	149 50 07	03	75-10-09	470	110	440	67	2800	0	1130	E5.7	540
			76-04-14	380	99	360	--	2270	--	725	1.7	430

E Estimated

1/ Pressure tank

2/ Bailer

3/ Well head

4/ Producing

5/ Bailing

6/ Pumping

7/ Raw

* Published as Anchorage City Sanitary Landfill Wells in 1975 WY Annual Report

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

ANCHORAGE (MERRILL FIELD) SANITARY LANDFILL WELLS--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
61 12 19	149 50 35	01	75-10-09	.1	12	--	193	.00	.06	.02	--	21
			76-04-14	--	--	--	--	--	--	--	--	22
61 12 23	149 50 39	01	76-08-03	--	--	--	--	--	--	--	--	--
			76-08-05	--	--	--	--	--	--	--	--	50
			76-09-14	--	--	--	--	--	--	--	--	50
			76-09-14	--	--	--	--	--	--	--	--	50
			76-09-14	--	--	--	--	--	--	--	--	50
61 12 43	149 50 07	01	75-10-09	.2	10	--	142	.00	.06	.02	--	41
			76-04-14	--	--	--	--	--	--	--	--	48
61 12 43	149 50 07	02	76-04-14	--	--	--	--	--	--	--	--	44
61 12 43	149 50 07	03	75-10-09	.1	22	2860	3140	--	--	--	55	--
			76-04-14	--	--	--	--	--	--	--	--	39

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
61 12 19	149 50 35	01	75-10-09	0	10	1	20	0	150	10	1.3
			76-04-14	--	--	--	40	--	170	--	3.7
61 12 23	149 50 39	01	76-08-03	--	--	--	1700	--	--	--	--
			76-08-05	--	--	--	120	--	--	--	--
			76-09-14	--	--	--	--	--	--	--	--
			76-09-14	--	--	--	--	--	--	--	--
			76-09-14	--	--	--	20	--	--	--	1.3
61 12 43	149 50 07	01	75-10-09	0	10	0	100	0	160	10	8.9
			76-04-14	--	--	--	1300	--	300	--	7.3
61 12 43	149 50 07	02	76-04-14	--	--	--	280	--	200	--	.7
61 12 43	149 50 07	03	75-10-09	--	--	--	84000	--	25000	210	48
			76-04-14	--	--	--	51000	--	20000	--	--

*ANCHORAGE (INTERNATIONAL AIRPORT ROAD) SANITARY LANDFILL WELLS

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)	INSTAN-TANEOUS FLOW RATE (GPM)
61 10 02	149 55 38	01	SB01300436CCCC1038 02139	75-10-16	1015	17	17	13	12	6.0
				76-04-15	1220	17	17	13	30	6.0
61 10 05	149 54 48	01	SB01300436CDDB1032 02131	75-10-15	0900	18	18	13	15	E5.0
				76-04-15	1410	18	18	13	10	7.0
61 10 06	149 55 18	01	SB01300436CCDB1034 02133	75-10-16	1300	18	18	13	5	.50
				76-04-15	1515	18	18	13	E2	--
61 10 07	149 54 57	01	SB01300436CDCA1033 02132	75-10-15	1000	18	18	13	12	E5.0
				76-04-16	1110	18	18	13	20	7.0
61 10 13	149 55 08	01	SB01300436CCAA1036 02135	75-10-15	1330	46	46	38	15	3.0
				76-04-16	1220	46	46	38	20	6.0
61 10 13	149 55 11	01	SB01300436CCAA1040 02365	75-10-16	0915	145	145	145	30	.80
61 10 17	149 55 52	01	SB01300435DACC1020 02137	75-10-16	1200	23	23	15	15	E10
61 10 24	149 55 29	01	SB01300436CBBC1037 02138	75-10-15	1100	28	28	20	15	E5.0

E Estimated

* Published as Anchorage Borough Sanitary Landfill Wells in 1975 WY Annual Report

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

ANCHORAGE (INTERNATIONAL AIRPORT ROAD) SANITARY LANDFILL WELLS--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	SAMPLE SOURCE	SAM-PLING CONDI-TION	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
61 10 02	149 55 38	01	75-10-16	1/ 1	2/ 8	350	7.3	3.0	--	--	--	--
			76-04-15	1	8	375	6.8	1.5	180	0	45	16
61 10 05	149 54 48	01	75-10-15	1	8	375	7.4	2.0	--	--	--	--
			76-04-15	1	8	260	6.6	1.0	140	0	42	7.5
61 10 06	149 55 18	01	75-10-16	1	3/ 15	4800	6.7	4.5	--	--	--	--
			76-04-15	1	15	5000	6.7	2.0	1700	0	490	110
61 10 07	149 54 57	01	75-10-15	1	8	560	7.0	3.5	--	--	--	--
			76-04-16	1	8	950	6.5	2.5	440	54	140	23
61 10 13	149 55 08	01	75-10-15	1	8	2100	6.5	3.0	--	--	--	--
			76-04-16	1	8	2600	6.3	3.0	1400	95	440	71
61 10 13	149 55 11	01	75-10-16	1	8	195	9.3	3.0	--	--	--	--
61 10 17	149 55 52	01	75-10-16	1	8	80	6.5	3.5	--	--	--	--
61 10 24	149 55 29	01	75-10-15	1	8	775	6.7	4.5	--	--	--	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL IRON (FE) (UG/L)
61 10 02	149 55 38	01	75-10-16	4.7	209	--	17	12	3.2	.00	--	3700
			76-04-15	4.9	240	--	61	--	2.6	--	--	--
61 10 05	149 54 48	01	75-10-15	3.3	217	--	14	14	4.8	.00	--	9800
			76-04-15	3.1	168	--	68	10	4.5	--	--	--
61 10 06	149 55 18	01	75-10-16	310	2680	--	856	2.7	370	.14	7	--
			76-04-15	310	2750	--	878	--	390	--	--	--
61 10 07	149 54 57	01	75-10-15	5.5	315	--	50	--	16	.01	--	41000
			76-04-16	8.0	476	--	241	--	23	--	--	--
61 10 13	149 55 08	01	75-10-15	73	1490	--	754	--	110	.00	--	210000
			76-04-16	90	1580	--	1270	--	170	--	--	--
61 10 13	149 55 11	01	75-10-16	7.9	108	29	.1	2.2	1.8	.00	--	2100
61 10 17	149 55 52	01	75-10-16	2.0	22	--	11	13	2.8	.28	--	900
61 10 24	149 55 29	01	75-10-15	33	194	--	62	9.3	140	.00	--	36000

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
61 10 02	149 55 38	01	75-10-16	--	440	--	--	13	--
			76-04-15	4100	--	520	--	--	11
61 10 05	149 54 48	01	75-10-15	--	820	--	--	5.5	--
			76-04-15	7300	--	590	--	--	3.6
61 10 06	149 55 18	01	75-10-16	--	--	--	0	--	--
			76-04-15	290000	--	3600	--	--	1500
61 10 07	149 54 57	01	75-10-15	--	1500	--	--	70	--
			76-04-16	77000	--	1500	--	--	216
61 10 13	149 55 08	01	75-10-15	--	10000	--	--	--	--
			76-04-16	260000	--	13000	--	--	1000
61 10 13	149 55 11	01	75-10-16	--	50	--	--	4.2	--
61 10 17	149 55 52	01	75-10-16	--	60	--	--	2.2	--
61 10 24	149 55 29	01	75-10-15	--	1800	--	--	4.5	--

1/ Well head

2/ Pumping

3/ Bailing

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

PALMER--PRIVATE WELL

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN)	SAMPLE SOURCE	SAMPLING CONDITION	SAMPLE TREATMENT
61 36 38	149 04 08	01	SA01800234ACBA1002 20556	76-09-22	--	111	E5	1/ 30	2/ 8	3/ 1

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
61 36 38	149 04 08	01	76-09-22	1800	13.5

E Estimated 2/ Pumping
1/ Pressure tank 3/ Raw

SUTTON--PRIVATE WELL

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT)	DEPTH TO TOP OF SAMPLE INTERVAL (FT)	SAMPLE SOURCE	SAMPLING CONDITION
61 42 43	148 53 32	01	SA01900327BADC1011 20564	76-09-15	--	41	41	41	1/ 30	2/ 8

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	SAMPLE TREATMENT	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
61 42 43	148 53 32	01	76-09-15	3/ 1	200	9.5

1/ Pressure tank 2/ Pumping 3/ Raw

YUKON ALASKA

FT. YUKON COMMUNITY WELL

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	SAMPLE SOURCE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
66 33 37	145 14 32	01	FA02001217BBCC1001 51574	76-06-22	1630	1/ 46	301	18	150	14

1/ Public supply (untreated)

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

FT. YUKON COMMUNITY WELL--Continued

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
66 33 37	145 14 32	01	76-06-22	44	9.8	2.6	1.8	166	23	.8	.1	12

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)
66 33 37	145 14 32	01	76-06-22	180	.25	.08	6	200	0	0	2	2200

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
66 33 37	145 14 32	01	76-06-22	2	480	0	0	240

NORTH POLE PUBLIC SUPPLY WELLS

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	SAMPLE SOURCE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)
64 45 04	147 20 50	01	FD00200209DDBB1002 51318	76-05-18	1100	1/ 46	279	.0	8	140
64 45 04	147 20 56	01	FD00200209DCAA1001 51269	75-12-22	1400	46	286	--	2	140

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
64 45 04	147 20 50	01	76-05-18	19	41	8.9	3.7	2.9	147	31	1.3	.2
64 45 04	147 20 56	01	75-12-22	16	40	8.5	3.9	3.2	145	28	.9	.1

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)
64 45 04	147 20 50	01	76-05-18	18	181	.09	.04	1	0	0	0	0
64 45 04	147 20 56	01	75-12-22	18	175	.01	.01	1	200	0	0	6

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
64 45 04	147 20 50	01	76-05-18	950	0	870	0	0	30	--
64 45 04	147 20 56	01	75-12-22	--	0	860	0	0	20	1.0

1/ Public water supply (untreated)

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

FAIRBANKS PUBLIC SUPPLY WELLS

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)
64 49 11	147 51 40	01	FC00100224BAAC1004 51317	76-05-02	1530	--	2/ 46	323	1	86
64 50 31	147 49 41	01	FC00100107CAAA1006 51252	76-01-30	1400	--	46	393	45	180
64 50 53	147 43 58	01	FC00100110BABC1018 51352	75-12-09	0910	1/ 9815	46	277	80	130
64 50 53	147 44 09	01	FC00100110BBAD1016 51350	76-05-24	1500	--	46	365	2	180
64 50 54	147 44 05	01	FC00100110BBAD2017 51351	75-12-09	0900	9815	46	399	20	190
64 50 58	147 49 40	01	FC00100107BAAB1007 51265	76-01-30	--	--	46	653	20	290

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
64 49 11	147 51 40	01	76-05-02	0	18	10	37	3.2	195	8.9	2.7	.2
64 50 31	147 49 41	01	76-01-30	0	49	15	8.3	4.0	249	.4	3.3	.2
64 50 53	147 43 58	01	75-12-09	10	39	8.0	3.9	2.8	147	16	2.7	.1
64 50 53	147 44 09	01	76-05-24	10	52	12	5.1	3.7	206	20	3.1	.2
64 50 54	147 44 05	01	75-12-09	10	58	11	6.1	3.8	220	17	4.7	.1
64 50 58	147 49 40	01	76-01-30	0	76	25	20	4.4	386	13	19	.2

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
64 49 11	147 51 40	01	76-05-02	31	208	--	--	0	0	0	10	20
64 50 31	147 49 41	01	76-01-30	36	245	.02	.29	12	100	0	0	0
64 50 53	147 43 58	01	75-12-09	19	169	.03	.06	1	200	0	0	0
64 50 53	147 44 09	01	76-05-24	27	229	--	--	0	100	0	10	0
64 50 54	147 44 05	01	75-12-09	24	239	.03	.04	9	200	0	0	0
64 50 58	147 49 40	01	76-01-30	22	385	.07	.01	42	300	0	0	1

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
64 49 11	147 51 40	01	76-05-02	--	3	740	0	0	20	.2
64 50 31	147 49 41	01	76-01-30	4100	1	620	0	0	20	.0
64 50 53	147 43 58	01	75-12-09	3700	0	470	0	0	10	.0
64 50 53	147 44 09	01	76-05-24	3200	1	770	0	0	20	.2
64 50 54	147 44 05	01	75-12-09	4900	0	800	0	0	0	.0
64 50 58	147 49 40	01	76-01-30	13000	2	1000	0	0	20	.1

1/ Alaska Department of Environmental Conservation

2/ Public water supply (untreated)

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1975

YUKON ALASKA

FAIRBANKS PRIVATE WELLS

LAT- I- TUDE	LONG- I- TUDE	SEG. NO.	LOCAL IDENT- I- FIER	DATE OF SAMPLE	TYPE	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL DEPTH OF WELL (FT)	PH (UNITS)	TEMPER- ATURE (DEG C)	TOTAL ARSENIC (AS) (UG/L)
64 54 24	147 38 00	01	FA00100119BBAA1007 51282	75-08-26	2	1/ 9906	185	7.5	9.0	3
64 54 17	147 44 38	01	FB00100121AAAD1005 51279	75-08-26	2	9906	200	6.9	6.0	33
64 54 03	147 42 38	01	FB00100122ADDD1002 51280	75-08-26	2	9906	--	7.4	--	7
64 53 23	147 40 48	01	FB00100126AACA1002 51281	75-08-26	2	9906	--	7.0	19.0	2
64 53 11	147 46 40	01	FB00100129ADCA1025 51278	75-08-26	2	9906	85	7.4	9.0	13
64 52 40	147 49 20	01	FB00100131ABAB1005 51277	75-08-26	2	9906	--	7.1	17.0	7
64 55 34	147 52 14	01	FB00100212BBAB1008 51275	75-08-25	2	9906	285	7.2	8.0	1
64 55 12	147 52 49	01	FB00100214AADA1004 51289	75-08-29	2	9906	200	7.0	22.0	8
64 54 50	147 55 14	01	FB00100215DABB1001 50213	75-08-25	2	9906	120	7.0	5.0	1
64 54 12	147 58 00	01	FB00100221BDAB1003 51287	75-08-27	2	9906	--	6.4	4.0	3
64 54 04	147 57 05	01	FB00100221DAAB1002 51273	75-08-26	2	9906	252	6.8	6.0	29
64 53 08	147 53 43	01	FB00100226DBBB1001 50220	75-08-20	2	9906	245	6.9	15.0	23
64 53 30	147 56 08	01	FB00100227BADB1003 51271	75-08-27	2	9906	200	7.4	8.0	760
64 53 33	147 56 28	01	FB00100227BBAB1004 51272	75-08-25	2	9906	--	6.7	9.0	2
64 52 37	148 02 24	01	FB00100231BBAD1001 51285	75-08-27	2	9906	130	6.2	16.0	8
64 52 38	147 52 48	01	FB00100235AAAD1001 51268	75-08-25	2	9906	135	7.0	8.0	52
64 52 26	147 52 50	01	FB00100235ADAD1005 51267	75-08-25	2	9906	80	6.8	6.0	25
64 52 14	147 53 10	01	FB00100235DBAA1006 51270	75-08-25	2	9906	--	7.1	17.0	540
64 52 38	147 51 00	01	FB00100236AABB1003 51276	75-08-26	2	9906	250	6.9	6.0	0
64 52 38	148 03 35	01	FB00100336AACA1001 51286	75-08-25	2	9906	--	7.0	17.0	310
64 51 48	147 53 49	01	FC00100202BAAC1001 51251	75-08-20	2	9906	235	7.6	6.6	160
64 51 28	147 55 42	01	FC00100203BDDD1002 51250	75-08-20	2	9906	--	7.1	11.0	26
64 51 46	147 57 51	01	FC00100204BABC1020 51249	75-08-20	2	9906	165	6.7	9.0	83
64 51 33	147 58 23	01	FC00100204BCAC1021 51284	75-08-27	2	9906	--	6.8	8.0	740
64 51 11	147 58 10	01	FC00100204CBAC1001 51480	75-08-20	2	9906	--	6.7	9.0	560
64 51 16	147 58 32	01	FC00100204CBCB1014 51493	75-08-27	2	9906	165	7.1	8.0	14
64 51 46	148 00 52	01	FC00100206AAAC1002 51264	75-08-23	2	9906	283	7.2	9.0	390
64 51 40	148 00 56	01	FC00100206AACA1001 51263	75-08-23	2	9906	200	6.4	18.0	5
64 50 53	148 00 35	01	FC00100207AADA1001 50338	75-08-23	2	9906	--	7.3	14.0	14
64 50 53	148 01 01	01	FC00100207ABDA1002 51244	75-08-19	2	9906	--	6.7	5.0	15
64 50 50	147 58 44	01	FC00100208AADA1006 51246	75-08-20	2	9906	138	6.8	5.0	1
64 50 50	147 59 21	01	FC00100208ABDB1002 51266	75-08-23	2	9906	71	7.0	10.0	230
64 50 55	147 56 45	01	FC00100209AAAA1001 51245	75-08-20	2	9906	--	7.0	4.0	0
64 50 55	147 58 09	01	FC00100209BBAD1002 51247	75-08-20	2	9906	165	6.8	5.0	3000
64 50 33	147 54 08	01	FC00100211BCDD002 51252	75-08-22	2	9906	--	6.7	6.0	3
64 50 56	147 51 58	01	FC00100212BABC1002 51257	75-08-23	2	9906	--	7.3	8.0	14
64 49 33	147 53 50	01	FC00100214CACA1002 51258	75-08-23	2	9906	--	7.0	4.0	19
64 50 06	147 55 57	01	FC00100215BABA1002 51253	75-08-22	2	9906	196	6.8	22.0	13
64 48 35	148 00 22	01	FC00100220CCBA1007 51254	75-08-22	2	9906	250	6.4	8.0	1
64 49 13	147 53 58	01	FC00100223BABB1004 51259	75-08-23	2	9906	--	7.1	7.0	5
64 48 01	147 56 10	01	FC00100227BCDA1001 51256	75-08-22	2	9906	24	6.6	12.0	12
64 48 15	148 00 23	01	FC00100229BBDB1010 51255	75-08-22	2	9906	210	6.5	12.0	18
64 47 46	147 59 32	01	FC00100229DBCD1003 51262	75-08-23	2	9906	-	7.2	14.0	0
64 47 28	147 57 30	01	FC00100233ABBC1005 51260	75-08-23	2	9906	225	7.0	10.0	28
64 47 22	147 57 40	01	FC00100233BADA1004 51261	75-08-23	2	9906	--	--	--	1
64 50 19	148 04 40	01	FC00100312CCBB1003 51288	75-08-29	2	9906	400	7.2	4.0	14

1/ University of Alaska

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1975

YUKON ALASKA

FAIRBANKS PRIVATE WELLS--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED ARSENIC (AS) (UG/L)
64 54 24	147 38 00	01	75-08-26	2
64 54 17	147 44 38	01	75-08-26	16
64 54 03	147 42 38	01	75-08-26	6
64 53 23	147 40 48	01	75-08-26	2
64 53 11	147 46 40	01	75-08-26	12
64 52 40	147 49 20	01	75-08-26	6
64 55 34	147 52 14	01	75-08-25	1
64 55 12	147 52 49	01	75-08-29	8
64 54 50	147 55 14	01	75-08-25	1
64 54 12	147 58 00	01	75-08-27	2
64 54 04	147 57 05	01	75-08-26	10
64 53 08	147 53 43	01	75-08-20	14
64 53 30	147 56 08	01	75-08-27	540
64 53 33	147 56 28	01	75-08-25	1
64 52 37	148 02 24	01	75-08-27	7
64 52 38	147 52 48	01	75-08-25	50
64 52 26	147 52 50	01	75-08-25	25
64 52 14	147 53 18	01	75-08-25	510
64 52 38	147 51 00	01	75-08-26	0
64 52 38	148 03 05	01	75-08-25	210
64 51 48	147 53 49	01	75-08-20	150
64 51 28	147 55 42	01	75-08-20	25
64 51 46	147 57 51	01	75-08-20	80
64 51 33	147 58 23	01	75-08-27	340
64 51 11	147 58 10	01	75-08-20	550
64 51 16	147 58 32	01	75-08-27	5
64 51 46	148 00 52	01	75-08-23	380
64 51 40	148 00 56	01	75-08-23	1
64 50 53	148 00 35	01	75-08-23	6
64 50 53	148 01 01	01	75-08-19	10
64 50 50	147 58 44	01	75-08-20	1
64 50 50	147 59 21	01	75-08-23	230
64 50 55	147 56 45	01	75-08-20	0
64 50 55	147 58 09	01	75-08-20	3000
64 50 33	147 54 08	01	75-08-22	2
64 50 56	147 51 58	01	75-08-23	14
64 49 33	147 53 50	01	75-08-23	19
64 50 06	147 55 57	01	75-08-22	11
64 48 35	148 00 22	01	75-08-22	1
64 49 13	147 53 58	01	75-08-23	4
64 48 01	147 56 10	01	75-08-22	9
64 48 15	148 00 23	01	75-08-22	17
64 47 46	147 59 32	01	75-08-23	0
64 47 28	147 57 30	01	75-08-23	26
64 47 22	147 57 40	01	75-08-23	1
64 50 19	148 04 40	01	75-08-29	9

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

FAIRBANKS PRIVATE WELLS

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	TOTAL DEPTH OF WELL (FT)	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
64 50 48	147 58 32	01	FC00100209BBCB1006 51666	76-04-20	2030	1/ 9815	--	--	--	--
64 50 49	147 58 42	01	FC00100208AADA1009 51667	76-04-13	1030	9815	--	--	--	--
64 50 50	147 58 44	01	FC00100208AADA1006 51246	76-04-13	0930	9815	--	--	--	--
64 50 51	147 59 13	01	FC00100209BBCB1008 51665	76-04-00	--	9815	--	--	--	--
64 51 03	147 58 26	01	FC00100204CCCA1006 51484	76-05-27	1045	9815	--	--	--	--
64 51 06	147 58 26	01	FC00100204CCBD1009 51487	76-04-22	1000	9815	--	--	--	--
64 51 30	147 58 05	01	FC00100204BDBC1022 51664	76-04-14	1430	9815	--	--	--	--
64 51 39	147 56 01	01	FC00100203AADB1001 51462	76-04-19	2000	9815	--	--	--	--
64 51 39	147 58 10	01	FC00100204BBDD1013 51492	76-04-00	--	9815	--	--	--	--
64 52 38	147 52 48	01	FB00100235AAAD1001 51268	76-04-00	--	9815	135	--	--	--
64 52 41	147 52 23	01	FB00100235AAAB1004 51378	76-04-00	--	9815	--	--	--	--
64 52 42	147 49 36	01	FB00100130DCCC1012 51521	76-08-11	1400	--	--	2/ 30	--	6.8
64 52 43	147 49 53	01	FB00100130CDDC1017 51584	76-08-09	1030	--	--	30	--	6.6
64 52 44	147 50 05	01	FB00100130CDCC1016 51581	76-08-16	1400	--	--	--	--	7.2
64 52 45	147 49 21	01	FB00100130DCDB1011 51520	76-08-16	1300	--	--	--	--	7.8
64 52 49	147 48 40	01	FB00100130DDAA1014 51578	76-08-20	1345	--	--	30	--	7.4
64 52 47	147 49 05	01	FB00100130DDCB1020 51590	76-08-30	1630	--	--	30	--	6.8
64 52 47	147 49 13	01	FB00100130DCDA1021 51592	76-09-07	1530	--	--	--	--	6.8
64 52 47	147 49 27	01	FB00100130DCCA1015 51580	76-08-16	1700	--	--	--	900	6.9
64 52 47	147 50 05	01	FB00100130CDCB1025 51597	76-09-24	1330	--	--	30	1100	6.8
64 52 47	147 50 14	01	FB00100130CCDA1019 51588	76-08-30	1200	--	--	30	--	7.4
64 52 48	147 49 35	01	FB00100130DCCB1018 51586	76-08-09	1630	--	--	30	--	7.1
64 52 49	147 49 11	01	FB00100130DCAD1022 51593	76-09-09	1400	--	--	--	--	6.9
64 52 50	147 49 35	01	FB00100130DCBC1026 51599	76-09-28	1000	--	--	30	1100	6.8
64 52 51	147 49 18	01	FB00100130DCAC1023 51594	76-09-20	1515	--	--	--	--	6.8
64 53 00	147 50 18	01	FB00100130CBDB1024 51596	76-09-24	0830	--	--	30	110	6.8
64 53 06	147 50 21	01	FB00100130CBAB1027 51600	76-09-28	1900	--	--	--	150	6.8
64 53 45	147 48 12	01	FB00100120CCAA1017 51582	76-08-12	1130	--	265	--	1275	7.1
64 53 45	147 49 36	01	FB00100119DCBB1010 51579	76-08-20	1100	--	--	30	--	7.4
64 53 47	147 27 08	01	FA00100124DCBA1004 51336	76-08-09	1200	--	174	30	--	--
64 53 49	147 48 36	01	FB00100120CBCC1019 51589	76-08-30	1130	--	--	--	650	6.8
64 53 57	147 49 22	01	FB00100119DBAB1014 51598	76-09-27	1900	--	--	30	--	6.9
64 53 57	147 49 29	01	FB00100119DBBD1011 51583	76-08-12	1600	--	--	--	--	7.1
64 53 58	147 48 41	01	FB00100119DAAA1004 50180	76-08-06	1110	--	--	30	550	6.9
64 54 00	147 47 09	01	FB00100120AACC2018 51587	76-07-29	1545	--	150	30	--	7.1
64 54 01	147 49 13	01	FB00100119ACDD1012 51585	76-08-09	1545	--	126	--	--	7.3
64 54 08	147 48 55	01	FB00100119ADAC1008 51478	76-07-29	1500	--	167	30	1500	6.9
64 54 12	147 49 11	01	FB00100119ABDD1003 50179	76-08-06	1200	--	--	30	325	6.5
64 54 13	147 49 19	01	FB00100119ABDC1013 51591	76-08-27	1630	--	--	30	310	6.5
64 54 21	147 48 36	01	FB00100120BBBC1016 51560	76-09-28	1300	--	--	--	--	6.3

1/ Alaska Department of Environmental Conservation

2/ Pressure tank

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

FAIRBANKS PRIVATE WELLS--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TEMPER-ATURE (DEG C)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL IRON (FE) (UG/L)
64 50 48	147 58 32	01	76-04-20	--	--	--	--	0	--
64 50 49	147 58 42	01	76-04-13	--	--	--	--	7	--
64 50 50	147 58 44	01	76-04-13	--	--	--	--	2	--
64 50 51	147 59 13	01	76-04-00	--	--	--	--	52	--
64 51 03	147 58 26	01	76-05-27	--	--	--	--	2	--
64 51 06	147 58 26	01	76-04-22	--	--	--	--	12	--
64 51 30	147 58 05	01	76-04-14	--	--	--	--	1	--
64 51 39	147 56 01	01	76-04-19	--	--	--	--	410	--
64 51 39	147 58 10	01	76-04-00	--	--	--	--	42	--
64 52 38	147 52 48	01	76-04-00	--	--	--	--	42	--
64 52 41	147 52 23	01	76-04-00	--	--	--	--	100	--
64 52 42	147 49 36	01	76-08-11	--	--	--	--	0	--
64 52 43	147 49 53	01	76-08-09	--	568	228	--	0	--
64 52 44	147 50 05	01	76-08-16	--	--	--	--	0	--
64 52 45	147 49 21	01	76-08-16	--	--	--	--	0	9000
64 52 49	147 48 40	01	76-08-20	--	--	--	--	100	12000
64 52 47	147 49 05	01	76-08-30	20.0	692	176	--	2200	130000
64 52 47	147 49 13	01	76-09-07	9.0	672	170	--	50	9800
64 52 47	147 49 27	01	76-08-16	--	504	102	--	0	--
64 52 47	147 50 05	01	76-09-24	21.0	510	129	2.9	1	--
64 52 47	147 50 14	01	76-08-30	19.0	--	--	--	0	--
64 52 48	147 49 35	01	76-08-09	--	640	81	--	1	--
64 52 49	147 49 11	01	76-09-09	23.0	--	--	--	50	--
64 52 50	147 49 35	01	76-09-28	10.0	611	155	9.2	1	--
64 52 51	147 49 18	01	76-09-20	8.0	--	--	--	100	17000
64 53 00	147 50 18	01	76-09-24	14.0	67	17	--	500	--
64 53 06	147 50 21	01	76-09-28	12.0	93	24	--	25	--
64 53 45	147 48 12	01	76-08-12	--	482	61	--	1	--
64 53 45	147 49 36	01	76-08-20	--	--	--	--	13	--
64 53 47	147 27 08	01	76-08-09	--	--	--	--	1	--
64 53 49	147 48 36	01	76-08-30	17.0	325	82	12	0	--
64 53 57	147 49 22	01	76-09-27	16.0	--	--	--	1	--
64 53 57	147 49 29	01	76-08-12	--	--	--	--	4	--
64 53 58	147 48 41	01	76-08-06	--	290	58	--	2	--
64 54 00	147 47 09	01	76-07-29	--	406	52	--	2	--
64 54 01	147 49 13	01	76-08-09	--	400	32	--	2	--
64 54 08	147 48 55	01	76-07-29	--	594	120	--	12	1600
64 54 12	147 49 11	01	76-08-06	--	180	91	--	2	--
64 54 13	147 49 19	01	76-08-27	--	116	59	--	5	5100
64 54 21	147 48 36	01	76-09-28	--	71	57	--	150	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	TOTAL DEPTH OF WELL (FT)	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
64 54 30	147 36 21	01	FA00100117CCCB1007 51601	76-09-27	1500	--	200	--	350	6.8
64 54 33	147 36 29	01	FA00100118DDAD1002 51604	76-09-29	1500	--	--	30	--	7.2
64 54 56	147 36 15	01	FA00100117BCCA1008 51603	76-09-29	1400	--	--	--	--	6.7
64 56 02	147 34 20	01	FA00100109BBCB1002 51602	76-09-29	1115	--	--	--	135	6.3
64 56 11	147 34 17	01	FA00100104CCCC1001 51595	76-09-21	1500	--	325	30	--	6.3

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TEMPER-ATURE (DEG C)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL IRON (FE) (UG/L)
64 54 30	147 36 21	01	76-09-27	15.0	204	52	--	18	--
64 54 33	147 36 29	01	76-09-29	11.0		--	--	0	--
64 54 56	147 36 15	01	76-09-29	4.0		--	--	--	37000
64 56 02	147 34 20	01	76-09-29	10.0	81	65	--	1	--
64 56 11	147 34 17	01	76-09-21	8.0		--	--	0	--

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

FAIRBANKS PRIVATE WELLS--Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
64 50 50	147 59 21	01	FC00100208ABDB1002 51266	76-02-23	1130	71	--	805	6.7	3.0
64 51 16	147 58 32	01	FC00100204CBCB1014 51493	76-02-23	1200	165	1/ 30	795	6.8	5.5
64 51 40	148 00 56	01	FC00100206AACA1001 51263	76-02-23	1100	200	30	220	5.9	3.0
64 53 30	148 56 08	01	FB00100227BADB1003 51271	76-02-18	1215	200	30	953	7.0	4.0
64 53 13	147 37 18	01	FA00100130ACBD1008 51274	76-01-07	1400	--	30	980	6.8	--
64 52 38	148 03 05	01	FB00100336AACA1001 51286	76-02-18	1045	--	30	240	7.5	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
64 50 50	147 59 21	01	76-02-23	0	430	180	110	37	10	2.7	308	0
64 51 16	147 58 32	01	76-02-23	2	420	11	120	28	13	1.8	492	0
64 51 44	148 00 56	01	76-02-23	5	75	28	12	11	6.5	1.0	58	0
64 53 30	148 56 08	01	76-02-18	5	460	35	98	52	27	3.5	519	0
64 53 13	147 37 18	01	76-01-07	3	490	34	130	41	20	2.1	560	0
64 52 38	148 03 05	01	76-02-18	3	110	56	29	9.0	3.9	2.1	65	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
64 50 50	147 59 21	01	76-02-23	98	190	.5	.4	19	577	533	2.6	.04
64 51 16	147 58 32	01	76-02-23	125	16	.4	.4	26	505	490	9.5	.03
64 51 40	148 00 56	01	76-02-23	117	42	.0	.3	24	132	132	1.3	.01
64 53 30	148 56 08	01	76-02-18	83	110	16	.4	15	581	591	.03	.00
64 53 13	147 37 18	01	76-01-07	142	27	1.1	.2	17	585	594	18	.00
64 52 38	148 03 05	01	76-02-18	3.0	70	.2	.4	21	159	168	.03	.01

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL ANTI-MONY (SB) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
64 50 50	147 59 21	01	76-02-23	2	210	70	20	--
64 51 16	147 58 32	01	76-02-23	1	30	60	40	--
64 51 40	148 00 56	01	76-02-23	0	6	410	210	--
64 53 30	148 56 08	01	76-02-18	0	1100	13000	600	--
64 53 13	147 37 18	01	76-01-07	--	0	30	0	.1
64 52 38	148 03 05	01	76-02-18	0	260	60	150	--

1/ Pressure tank

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

YUKON ALASKA

ESTER COMMUNITY WELL

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)
64 50 51	148 00 35	01	FC00100208BBCB1010 50338	76-03-19	1530	1/ 9815	2/ 46	841	2	450

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
64 50 53	148 00 35	01	76-03-19	100	110	42	11	3.3	419	120	.9	.3

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
64 50 53	148 00 35	01	76-03-19	18	516	.81	.40	6	0	0	0	3

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
64 50 53	148 00 35	01	76-03-19	110	1	20	2	0	380	.0

1/ Alaska Department of Environmental Conservation 2/ Public supply (untreated)

TANANA HOSPITAL WELL

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	SAMPLE SOURCE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
65 10 23	152 05 20	01	FB00402218DAAD1002 51316	76-05-27	1315	1/ 46	459	18	250	23

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
65 10 23	152 05 20	01	76-05-27	70	17	5.8	1.5	270	23	4.6	.2	11

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
65 10 23	152 05 20	01	76-05-27	270	.18	.00	3	200	0	0	1	1800

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
65 10 23	152 05 20	01	76-05-27	2	500	1	0	30

1/ Public supply (untreated)

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1976

NORTHWEST ALASKA

U.S. AIR FORCE--CAPE LISBURNE WELL

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
68 52 24	166 05 03	02	UC00606036CCCD2001 70004	76-04-14	1245	41	3.5	3	170	15

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
68 52 24	166 05 03	02	76-04-14	48	11	5.9	.8	183	17	12	.2	1.8

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
68 52 24	166 05 03	02	76-04-14	190	190	.55	.01	70	40

SAVOONGA COMMUNITY SUPPLY WELL

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
63 41 40	170 28 50	01	KC02106105ABBB1001 51575	76-06-19	1330	313	4	110	0	20

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
63 41 40	170 28 50	01	76-06-19	14	21	4.9	153	8.1	20	.1	22	187

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
63 41 40	170 28 50	01	76-06-19	.16	.19	1	0	0	0	2	10	2

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
63 41 40	170 28 50	01	76-06-19	0	0	0	10

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976
SOUTHEAST ALASKA

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
55 56 00	131 34 00[a]	00	CD06809031BCAC1S	6001S	76-07-06	2200	E.06	E25	920	8.4	74.0
55 58 57	131 39 40[b]	01	CD06808909CCDA1S	6000S	76-07-07	1000	.16	72	444	8.2	90.0
56 43 27	132 02 27[c]	01	CD05908528CCAA1S	6002S	76-07-07	1800	.12	54	390	7.1	50.5

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
55 56 00	131 34 00	00	76-07-06	25	0	10	.1	200	7.2	60	14
55 58 57	131 39 40	01	76-07-07	14	0	2.1	2.2	89	4.3	145	0
56 43 27	132 02 27	01	76-07-07	38	1	15	.1	73	3.0	45	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
55 56 00	131 34 00	00	76-07-06	.6	130	200	110	702
55 58 57	131 39 40	01	76-07-07	1.5	43	53	150	415
56 43 27	132 02 27	01	76-07-07	5.7	140	6.3	70	330

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
55 56 00	131 34 00	00	CD06809031BCAC1S	6001S	76-07-06	2200	1	0	0	460	0
55 58 57	131 39 40	01	CD06808909CCDA1S	6000S	76-07-07	1000	5	0	0	330	0
56 43 27	132 02 27	01	CD05908528CCAA1S	6002S	76-07-07	1800	1	0	0	30	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
55 56 00	131 34 00	00	76-07-06	0	10	29	150	0	4	0	10
55 58 57	131 39 40	01	76-07-07	0	10	0	70	0	0	0	10
56 43 27	132 02 27	01	76-07-07	0	10	0	20	0	9	0	0

[a] Bell Island Hot Spring

[b] Bailey Bay Hot Spring

[c] Chief Shakes Hot Spring

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WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
61 39 27	149 01 52[a]	01	SA01800211DDCC1S	5008S	76-09-17	--	240	2.5
61 40 56	149 03 00[b]	01	SA01800202BCAD1S	5010S	76-09-15	--	285	3.0
61 48 09	147 36 34[c]	01	SA02001022DDCD1S	5011S	76-09-15	--	360	1.5
61 48 27	147 57 55[d]	01	SA02000823CPBD1S	5012S	76-09-15	--	380	2.5
61 48 47	148 10 20[e]	01	SA02000722RBDD1S	5009S	76-09-15	--	250	3.0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
61 11 04	151 35 49[f]	01	SB01301327CCBA1S	5020S	75-10-02	1100	<.01	70	6.9	4.5	4
61 16 53	151 44 37[g]	01	SB01401426BBAC1S	5019S	75-10-02	1310	--	20	4.1	4.0	22

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
61 11 04	151 35 49	01	75-10-02	13.6	26	2	6.2	2.6	3.2	.3	29	0
61 16 53	151 44 37	01	75-10-02	11.6	9	9	2.1	.8	1.0	.3	0	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
61 11 04	151 35 49	01	75-10-02	5.8	3.1	1.1	.1	14	51	47	.38	.35
61 16 53	151 44 37	01	75-10-02	.0	4.7	1.0	.0	8.8	26	19	.38	.01

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
61 11 04	151 35 49	01	75-10-02	.01	.01	.02	.40	.02	.00
61 16 53	151 44 37	01	75-10-02	.01	.23	.24	.62	.05	.00

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
61 11 04	151 35 49	01	SB01301327CCBA1S	5020S	75-10-02	1100	1100	2	<100	10	10
61 16 53	151 44 37	01	SB01401426BBAC1S	5019S	75-10-02	1310	110	1	<100	10	10

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)
61 11 04	151 35 49	01	75-10-02	10	2900	120	100	440	350	.1	1	100
61 16 53	151 44 37	01	75-10-02	10	50	40	<100	70	10	.2	0	100

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

SOUTH-CENTRAL ALASKA --Continued

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED URANIUM (U) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
61 11 04	151 35 49	01	75-10-02	0	<10	100	.04	.5
61 16 53	151 44 37	01	75-10-02	0	<10	100	<.01	1.0

a Wolverine Creek Spring
b Moose Creek Campground Spring
c Meekins Lodge Spring
d Victory Bible Camp Spring
e Wiener Lake Spring
f Chuitna River Tributary Spring
g Capps Creek Tributary Spring

SOUTHWEST ALASKA

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	INSTANTANEOUS DISCHARGE (CFS)	INSTANTANEOUS FLOW RATE (GPM)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
53 15 00	168 21 45[a]	01	SC080133 1S 4000S	76-07-15	1330	E.03	E15	4085	92.5	--
56 55 13	158 06 26[b]	01	SC03805601DABD1S 4001S	76-07-28	1845	--	--	305	--	3
56 55 42	158 07 10[c]	01	SC03805601BAAB1S 4002S	76-07-25	1030	--	--	850	23.0	4

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
53 15 00	168 21 45	01	76-07-15	460	--	180	1.5	650	36	--	88
56 55 13	158 06 26	01	76-07-28	110	0	20	14	29	3.4	142	40
56 55 42	158 07 10	01	76-07-25	240	0	45	31	99	9.8	388	23

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
53 15 00	168 21 45	01	76-07-15	1300	--	110	--	--	--	--
56 55 13	158 06 26	01	76-07-28	12	.5	38	217	228	.13	.08
56 55 42	158 07 10	01	76-07-25	86	.7	87	548	590	.00	.05

LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
53 15 00	168 21 45	01	SC080133 1S 4000S	76-07-15	1330	3600	100	0	28000	0
56 55 13	158 06 26	01	SC03805601DABD1S 4001S	76-07-28	1845	--	--	--	290	--
56 55 42	158 07 10	01	SC03805601BAAB1S 4002S	76-07-25	1030	--	--	--	3800	--

LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
53 15 00	168 21 45	01	76-07-15	0	40	0	2600	140	8	0	30
56 55 13	158 06 26	01	76-07-28	--	20	--	--	0	--	--	--
56 55 42	158 07 10	01	76-07-25	--	13000	--	--	470	--	--	--

a Umnak Island Hot Spring
b Aniakchak Crater Camp Spring
c Aniakchak Crater Hot Spring

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

YUKON ALASKA

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
63 51 00	148 57 22[a]	01	FC01200729ABDA1S	3003S	76-06-10	1000	--	--	475	--	--
64 57 51	147 37 20[b]	01	FA00200131ABBC1S	3004S	76-01-30	1100	--	--	427	--	--
65 00 18	150 37 54[c]	00	FB00201517AACA1S	3001S	76-07-09	1130	.45	203	540	7.6	47.5
65 07 46	154 41 23[d]	01	KD00402023ADBD1S	3000S	76-07-09	1500	--	E37	565	8.4	54.0
65 28 57	144 38 18[e]	01	FA00801534BACA1S	3002	76-07-10	1130	.66	296	1175	7.2	56.5

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
63 51 00	148 57 22	01	76-06-10	5	250	62	55	28	3.2	1.0	233
64 57 51	147 37 20	01	76-01-30	3	210	35	57	17	4.8	3.6	216
65 00 18	150 37 54	00	76-07-09	--	25	0	9.3	.4	110	4.0	92
65 07 46	154 41 23	01	76-07-09	--	9	0	3.6	.1	130	3.0	93
65 28 57	144 38 18	01	76-07-10	--	59	0	23	.3	250	11	176

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
63 51 00	148 57 22	01	76-06-10	--	--	71	.4	.1	8.2	283	.33	.00
64 57 51	147 37 20	01	76-01-30	--	--	48	.9	.2	9.1	248	.18	.00
65 00 18	150 37 54	00	76-07-09	0	3.7	36	110	--	56	372	--	--
65 07 46	154 41 23	01	76-07-09	22	.9	61	91	--	67	424	--	--
65 28 57	144 38 18	01	76-07-10	0	18	120	240	--	86	819	--	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
63 51 00	148 57 22	01	FC01200729ABDA1S	3003S	76-06-10	1000	1	0	--	--	0
64 57 51	147 37 20	01	FA00200131ABBC1S	3004S	76-01-30	1100	0	0	--	--	1
65 00 18	150 37 54	00	FB00201517AACA1S	3001S	76-07-09	1130	2	0	0	960	0
65 07 46	154 41 23	01	KD00402023ADBD1S	3000S	76-07-09	1500	1	0	0	350	0
65 28 57	144 38 18	01	FA00801534BACA1S	3002	76-07-10	1130	0	0	0	1100	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
63 51 00	148 57 22	01	76-06-10	0	6	30	2	--	10	--
64 57 51	147 37 20	01	76-01-30	0	3	30	0	--	10	--
65 00 18	150 37 54	00	76-07-09	--	0	10	0	230	0	3
65 07 46	154 41 23	01	76-07-09	--	0	10	0	100	0	2
65 28 57	144 38 18	01	76-07-10	--	0	10	2	340	30	1

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
63 51 00	148 57 22	01	76-06-10	1	0	0	--
64 57 51	147 37 20	01	76-01-30	0	0	40	.0
65 00 18	150 37 54	00	76-07-09	0	--	0	--
65 07 46	154 41 23	01	76-07-09	0	--	0	--
65 28 57	144 38 18	01	76-07-10	0	--	0	--

a Unnamed Spring
b Fox Spring
c Manley Hot Spring
d Melozi Hot Spring
e Circle Hot Spring

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

NORTHWEST ALASKA

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
64 33 05	165 24 40[a]	01	KC01103411ACDH1S 2003S	76-06-22	1130	--	--	256	--	--
64 50 51	162 17 55[b]	01	KC00701827CCDA1S 2000S	76-07-11	1030	.24	110	245	8.6	64.5
64 51 03	162 17 44[c]	01	KC00701827CACA1S 2002S	76-07-11	1100	--	96	--	--	60.0
65 51 11	164 41 47[d]	01	KB00502912BCHB1S 2001S	76-07-12	1100	.06	26	4590	7.8	68.0
66 58 48	161 19 00[e]	01	KB018012 1S 2004S	76-04-05	1430	3.1	1390	320	6.9	.5
67 18 18	161 08 55[f]	01	KB022011 1S 2005S	76-04-05	1730	13	5830	260	--	2.0
67 28 20	163 46 00[g]	01	KB024023 1S 2006S	76-04-07	1030	11	4890	155	7.1	1.0
67 41 50	164 02 30[h]	01	KB027024 1S 2007S	76-04-06	1700	3.3	1480	195	7.2	.5
67 42 51	162 19 36[i]	01	KB027016 1S 2008S	76-04-06	1030	1.4	640	280	--	1.0
67 52 26	164 52 37[j]	01	KB029027 1S 2012S	76-04-07	1400	5.3	--	1460	7.8	3.5
67 55 30	163 34 20[k]	01	KB024021 1S 2009S	76-04-06	1530	9.6	4300	270	7.2	.5
68 08 24	163 57 18[l]	01	KB032023 1S 2010S	76-04-07	1230	7.0	3150	190	7.6	2.5
68 12 06	162 12 45[m]	01	KB032016 1S 2011S	76-04-06	1400	5.9	2650	280	7.3	.5

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
64 33 05	165 24 40	01	76-06-22	5	--	130	9	48	3.4	2.0	.3
64 50 51	162 17 55	01	76-07-11	--	--	5	0	2.0	.1	54	1.5
64 51 03	162 17 44	01	76-07-11	--	--	--	--	--	--	--	--
65 51 11	164 41 47	01	76-07-12	--	--	240	190	97	.4	830	41
66 58 48	161 19 00	01	76-04-05	--	--	130	0	--	--	3.6	.4
67 18 18	161 08 55	01	76-04-05	--	14.0	152	8	--	--	.6	.2
67 28 20	163 46 00	01	76-04-07	--	11.5	80	1	--	--	1.6	.3
67 41 50	164 02 30	01	76-04-06	--	8.4	104	2	--	--	1.5	.3
67 42 51	162 19 36	01	76-04-06	--	9.0	162	26	--	--	1.8	.4
67 52 26	164 52 37	01	76-04-07	--	10.5	260	130	--	--	240	10
67 55 30	163 34 20	01	76-04-06	--	7.0	150	29	--	--	1.5	.3
68 08 24	163 57 18	01	76-04-07	--	7.8	106	4	--	--	1.4	.2
68 12 06	162 12 45	01	76-04-06	--	3.9	158	35	--	--	1.4	.3

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
64 33 05	165 24 40	01	76-06-22	152	--	--	8.6	4.0	.0	4.5
64 50 51	162 17 55	01	76-07-11	63	22	.4	28	4.7	--	82
64 51 03	162 17 44	01	76-07-11	--	--	--	--	--	--	--
65 51 11	164 41 47	01	76-07-12	67	0	1.7	.0	1500	--	87
66 58 48	161 19 00	01	76-04-05	160	--	32	1.3	4.5	.1	4.3
67 18 18	161 08 55	01	76-04-05	176	--	--	4.0	.0	.0	2.0
67 28 20	163 46 00	01	76-04-07	96	--	12	3.3	2.4	.0	4.0
67 41 50	164 02 30	01	76-04-06	124	--	13	4.3	2.7	.0	3.3
67 42 51	162 19 36	01	76-04-06	166	--	--	25	.7	.1	5.4
67 52 26	164 52 37	01	76-04-07	164	--	4.2	48	420	.1	3.1
67 55 30	163 34 20	01	76-04-06	148	--	15	19	.0	.0	2.7
68 08 24	163 57 18	01	76-04-07	124	--	5.0	6.1	.0	.2	4.0
68 12 06	162 12 45	01	76-04-06	150	--	12	32	.9	.0	2.6

a Moonlight Spring
b Clear Creek Hot Spring
c Clear Creek Lower Spring
d Serpentine Hot Spring
e Amaouk Creek Spring
f North Fork Squirrel River Spring
g Rabbit Creek Spring
h Omikviorok River Spring
i Eli River Spring
j Kavrorak Spring
k Wulik River Spring
l Kivalina River Tributary Spring
m Kelly River Spring

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

NORTHWEST ALASKA --Continued

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
64 33 05	165 24 40	01	76-06-22	--	146	.16	.00
64 50 51	162 17 55	01	76-07-11	--	226	--	--
64 51 03	162 17 44	01	76-07-11	--	--	--	--
65 51 11	164 41 47	01	76-07-12	--	2600	--	--
66 58 48	161 19 00	01	76-04-05	195	--	.30	.00
67 18 18	161 08 55	01	76-04-05	167	--	.24	.00
67 28 20	163 46 00	01	76-04-07	--	--	.29	.00
67 41 50	164 02 30	01	76-04-06	--	--	.37	.01
67 42 51	162 19 36	01	76-04-06	182	--	.15	.00
67 52 26	164 52 37	01	76-04-07	936	--	.24	.00
67 55 30	163 34 20	01	76-04-06	165	--	.12	.00
68 08 24	163 57 18	01	76-04-07	115	--	.17	.00
68 12 06	162 12 45	01	76-04-06	--	--	.18	.00

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
64 33 05	165 24 40	01	KC01103411ACDB1S 2003S	76-06-22	1130	1	0	--	--	0
64 50 51	162 17 55	01	KC00701827CCOA1S 2000S	76-07-11	1030	8	0	0	140	0
65 51 11	164 41 47	01	KB00502912BCBB1S 2001S	76-07-12	1100	1	0	0	3200	0
66 58 48	161 19 00	01	KB018012 1S 2004S	76-04-05	1430	--	--	--	--	--
67 18 18	161 08 55	01	KB022011 1S 2005S	76-04-05	1730	--	--	--	--	--
67 28 20	163 46 00	01	KB024023 1S 2006S	76-04-07	1030	--	--	--	--	--
67 41 50	164 02 30	01	KB027024 1S 2007S	76-04-06	1700	--	--	--	--	--
67 42 51	162 19 36	01	KB027016 1S 2008S	76-04-06	1030	--	--	--	--	--
67 52 26	164 52 37	01	KB029027 1S 2012S	76-04-07	1400	--	--	--	--	--
67 55 30	163 34 20	01	KB029021 1S 2009S	76-04-06	1530	--	--	--	--	--
68 08 24	163 57 18	01	KB032023 1S 2010S	76-04-07	1230	--	--	--	--	--
68 12 06	162 12 45	01	KB032016 1S 2011S	76-04-06	1400	--	--	--	--	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
64 33 05	165 24 40	01	76-06-22	0	--	2	10	0	--	0	--	--
64 50 51	162 17 55	01	76-07-11	--	--	0	20	0	60	0	57	--
65 51 11	164 41 47	01	76-07-12	--	--	0	30	0	5000	40	0	--
66 58 48	161 19 00	01	76-04-05	--	0	0	40	0	0	0	--	2
67 18 18	161 08 55	01	76-04-05	--	2	1	80	3	0	0	--	1
67 28 20	163 46 00	01	76-04-07	--	--	--	--	--	0	--	--	--
67 41 50	164 02 30	01	76-04-06	--	--	--	--	--	0	--	--	--
67 42 51	162 19 36	01	76-04-06	--	2	0	40	1	0	0	--	0
67 52 26	164 52 37	01	76-04-07	--	2	1	120	2	30	0	--	2
67 55 30	163 34 20	01	76-04-06	--	2	1	30	3	0	0	--	1
68 08 24	163 57 18	01	76-04-07	--	2	1	20	3	0	0	--	2
68 12 06	162 12 45	01	76-04-06	--	--	--	--	--	0	--	--	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
64 33 05	165 24 40	01	76-06-22	0	0	--	0	--
64 50 51	162 17 55	01	76-07-11	0	--	--	0	--
65 51 11	164 41 47	01	76-07-12	0	--	--	0	--
66 58 48	161 19 00	01	76-04-05	--	0	.0	0	.7
67 18 18	161 08 55	01	76-04-05	--	0	.2	0	.1
67 28 20	163 46 00	01	76-04-07	--	--	.0	--	--
67 41 50	164 02 30	01	76-04-06	--	--	.1	--	--
67 42 51	162 19 36	01	76-04-06	--	0	.0	0	--
67 52 26	164 52 37	01	76-04-07	--	0	5.1	0	.8
67 55 30	163 34 20	01	76-04-06	--	0	.0	0	7.0
68 08 24	163 57 18	01	76-04-07	--	0	.5	10	4.8
68 12 06	162 12 45	01	76-04-06	--	--	.1	--	--

WATER QUALITY DATA COLLECTED FROM SPRINGS DURING WATER YEAR 1976

ARCTIC SLOPE ALASKA

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER		DATE OF SAMPLE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
69 19 50	144 02 40[a]	01	UD00103325BDAB1S	1000S	76-08-27	--	--	--	650	48.5	--
69 30 44	141 11 37[b]	01	UA020045 1S	1001S	75-11-18	1230	4.7	2110	--	.0	0
69 41 03	144 25 30[c]	00	UA004031 1S	1002S	75-11-16	1400	39	17400	360	4.0	0

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
69 19 50	144 02 40	01	76-08-27	25	9.8	.1	120	4.5	--	200	31	14
69 30 44	141 11 37	01	75-11-18	--	--	--	.7	.3	86	26	1.4	--
69 41 03	144 25 30	00	75-11-16	--	--	--	6.9	.5	126	61	3.6	--

LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
69 19 50	144 02 40	01	76-08-27	--	--	--	--	--
69 30 44	141 11 37	01	75-11-18	2.2	.16	.22	.38	.00
69 41 03	144 25 30	00	75-11-16	9.5	.10	.00	.10	.01

a Okpilak Hot Spring
b Clarence River Spring
c Sadlerochit Spring

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